



INDIAN AGRICULTURAL
RESEARCH INSTITUTE, NEW DELHI.

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YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL
VOLUME I
1935



PRINTED AT THE BAPTIST MISSION PRESS
PUBLISHED BY THE ROYAL ASIATIC SOCIETY OF BENGAL

CALCUTTA
1936

YEAR-BOOK
OF THE
ASIATIC SOCIETY OF BENGAL

VOLUME I-

1935

NOTICE.

For the convenience of the readers, enabling them to preserve and to bind separately the literary and scientific material, the *Journal and Proceedings of the Asiatic Society of Bengal* will from 1935 be issued in three separate parts, each with its own title, page numbering, and index.

The titles of the three parts will be :—

Journal of the Asiatic Society of Bengal. Letters.

Journal of the Asiatic Society of Bengal. Science.

Year-Book of the Asiatic Society of Bengal.

The *Year-Book* will contain the matter hitherto published in the *Proceedings* of the Society.

The following abbreviations are recommended for use in references: JASBL.; JASBSc.; and YBASB.

The volume and year numbers will be the same for the three parts of the *Journal*.

The new form of issue will constitute a third series of the *Journal* of which the history is as follows :—

First Series (1)	Journal,	Vols. 1-73, 1832-1904.
(2)	Proceedings,	Vols. 1-40, 1865-1904.
New (i.e. Second) Series	Journal and Proceedings,	Vols. 1-30, 1905-1934.
Third Series (1)	Journal. Letters,	Vol. 1- , 1935- .
(2)	Journal. Science,	Vol. 1- , 1935- .
(3)	Year-Book,	Vol. 1- , 1935- .

CALCUTTA,
1, PARK STREET,
January, 1935.

JOHAN VAN MANEN,
General Secretary,
Asiatic Society of Bengal.

Year-Book, Asiatic Society of Bengal, 1934.

CONTENTS.

	<i>Page</i>
1. Proceedings, Annual Meeting, 1935	5
Annual Address, 1934-35	9
Officers and Members of Council, 1935	23
Exhibition, Annual Meeting	24
Annual Report, 1934	36
Membership Statistics, 1905-1934	55
List of Publications, 1934	56
Abstract Statement of Receipts and Disbursements, 1934 ..	57
Jubilee Celebration Account, 1933-34	82
Abstract Proceedings Council, 1934	83
2. List of Patrons, Officers, Council Members, etc., 1934 ..	103
Patrons	104
Officers and Members of Council, 1934	105
Officers and Members of Council, 1935	106
Ordinary Members, alphabetically	107
Ordinary Members, chronologically	126
Life Members, chronologically	131
Special Anniversary Honorary Members	132
Associate Members	132
Institutional Members	133
Ordinary Fellows	15
Honorary Fellows	154
Changes in Membership	136
Loss of Members, 1934	136
Elliott Gold Medal, recipients	137
Barclay Memorial Medal, recipients	137
Sir William Jones Memorial Medal, recipients	138
Annandale Memorial Medal, recipients	138
Joy Gobind Law Memorial Medal, recipients	138
Paul Johannes Brühl Memorial Medal, recipients	138
3. Proceedings, Ordinary Monthly Meetings, 1934	139
Obituary Notices	185
4. Proceedings, Medical Section Meetings, 1934	193

PROCEEDINGS OF THE ANNUAL MEETING, 1935.

FEBRUARY.

The Annual Meeting of the Asiatic Society of Bengal was held on Monday, the 4th February, 1935, at 5-30 P.M.

PRESENT.

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S., M.INST.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.	Ghosal, Dr. U. N.
Basu, Mr. N. M.	Haq, Mr. M. Mahfuz-ul
Bent, Mr. W. A.	Hobbs, Mr. H.
Benthall, Sir Edward	Holme, Mr. J. W.
Biswas, Mr. K.	Hora, Dr. S. L.
Bogdanov, Mr. L.	Hossain, Dr. M. Hidayat
Brahmachari, Dr. P. N.	Jain, Mr. C. L.
Brahmachari, Sir U. N.	Jenkins, Dr. W. A.
Brahmachary, Rai Bahadur S. C.	Kavyatirtha, Pt. R. D.
Brown, Mr. Percy	Knowles, Lt.-Col. R.
Caldar, Mr. C. C.	Kramrisch, Dr. Stella
Chakladar, Mr. H. C.	Krishnan, Dr. K. S.
Chakravarti, Mr. Chintaharan	Krishnan, Dr. M. S.
Chatterjee, Mr. P. P.	Ledrus, Rev. M., S.J.
Chatterji, Dr. S. C.	Manen, Mr. Johan van
Chatterji, Dr. S. K.	Mitra, Mr. M. N.
Darbari, Mr. M. D.	Mitter, The Hon'ble Sir B. L.
Datta, Dr. H. N.	Mukherjee, Dr. J. N.
Dob, Raja K., Rai Mahasaya of	Mukherjee, Dr. S. C.
Bansberia Raj.	Pasricha, Capt. C. L.
Dikshit, Mr. K. N.	Rahman, Mr. S. K.
Driver, Mr. D. C.	Rao, Mr. U. Shankar
Duncan, Mr. P. C.	Wadia, Mr. D. N.
Ezra, Sir David	Wilson, Dr. H. E. C.

and others.

Visitors :

Acharji, Mr. M. N.	Datta, Mr. M. N.
Banerjee, Mr. S. N.	De, Mrs.
Bhaduri, Mr. J.	Dubois, Mons. P.
Bhattacharya, Mr. Bhabatosh	Ellis, Mr. N. A.
Bird, Mrs. M. E. C.	Ezra, Lady
Bose, Mr. J. K.	Formor, Mrs.
Brahmachari, Mr. S. C.	Gan, Mr. J. K.
Brown, Mrs. P.	Ghose, Mr. D. C.
Chhabra, Mr. B. Ch.	Groth, Mr. E. M.
Chatterjee, Mr. A. C.	Gunning, Mr. C. S.
Chatterjee, Mrs. S. C.	Haider, Mrs. G. L.
Contta, Mrs. M. E.	Heaney, Mr. G. F.
Das, Mr. K. N.	Jack, The Hon'ble Mr. Justice R. E.
Das-Gupta, Mr. C. C.	Knight, Rev. P.

Knight, Mrs.
 Matthews, Mr. B.
 Mukherjee, Mr. D. D.
 Mukherjee, Mr. J. C.
 Mukherjee, Mrs.
 Nag, Mr. K. C.
 Nag, Mrs.
 Narayanaswami, Mr. V.
 Phillimore, Col. R. D.

Prashad, Dr. Ganesh
 Renot, Mr. A. D.
 Sarkar, Sir Jadunath
 Schelvis, Rev. A., S.J.
 Sen, Mr. B. M.
 Sen, Mrs.
 Stanley, Mrs. F.
 Turbett, Capt. L. W. R. T.
 Turbett, Mrs.
 Wilkinson, Mr. H. R.

and others.

The President in declaring the Annual Meeting open said :—

‘ LADIES AND GENTLEMEN,

I have to my regret to announce that H.E. the Governor of Bengal, our Patron, is prevented from attending our Annual Meeting on account of absence from Calcutta. He has, however, expressed his good wishes for the success of our function and it is my pleasant duty to communicate this message to you.’

The President ordered the distribution of the voting papers for the election of Officers and Members of Council for 1935, and appointed Messrs. H. Hobbs and L. Bogdanov to be scrutineers.

The President ordered the distribution of copies of the Annual Report for 1934 and called on the General Secretary to present it to the meeting.

The Annual Report was then presented. (See page 36).

The retiring President then delivered his Annual Address. (See page 9).

The President called upon the scrutineers to report and announced the result of the Council Election. (See page 23).

The President for 1935 then briefly thanked the Society for his re-election, as follows :—

‘ LADIES AND GENTLEMEN,

I have to thank you most heartily for the honour you have done me by re-electing me your President for the ensuing year.

I will add no words other than those necessary to say that it will be my strenuous endeavour during the new year to serve the Society so that its usefulness, its renown and its influence may grow, and so that the cause of learning in this land and beyond its borders may be truly promoted.’

The President for 1935 then made the following announcement :—

‘ On the date prescribed by the regulations for the issue of nomination papers for the election of new Fellows for the year, there were no vacancies on the list, consequently, no election of Fellows has taken place this year.’

'I have next to announce that papers from two candidates have been received in competition for the Elliott Prize for Scientific Research for the year 1933, and the Trustees have judged the papers of one candidate deserving of the award.

The prize for the year is accordingly awarded to Mr. Nirmal Kumar Sen of Dacca University for meritorious publications on the subject of Chemistry.

The prize for 1934 has been for Physics. Papers from one candidate only have been received in competition for the prize; and the Trustees have judged those papers deserving of the award.

The prize for the year is accordingly awarded to Dr. D. P. Roy-Chaudhury of the University College of Science, Calcutta, for meritorious publications on the subject of Physics.

The prize for 1935 will be for work in Geology and Biology (including Pathology and Physiology) regarding which a detailed announcement has been published in the *Calcutta Gazette* and the *Bihar and Orissa Gazette*.

'My next announcement regards the Sir William Jones Memorial Medal. This medal is awarded biennially for conspicuously important Asiatic Researches with reference alternately to (1) Science, including Medicine, and (2) Philosophy, Literature and History.

'This year the medal is for Science, and is awarded to Rai Sir Upendra Nath Brahmachari Bahadur, Kt., for his long sustained and distinguished labours in the field of medical research.'

'My next announcement regards the Brühl Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the knowledge of Asiatic Botany. This year the medal is awarded to Mr. I. H. Burkill, Late Director of Gardens, Straits Settlements, for his important researches in Asiatic Botany.'

'My next announcement regards the Indian Science Congress, Calcutta Prize. This prize was instituted in the year 1928, to be awarded in such years as the session of the Congress is held in Calcutta, for conspicuously important services to the Indian Science Congress, or on a member of the Indian Science Congress, who, in the opinion of the Council, has made conspicuously important contributions to Science.

The Indian Science Congress, Calcutta Prize, is awarded to Dr. Meghnad Saha, F.R.S., of the Allahabad University with special reference to his work for the Indian Science Congress.'

The President for 1935 made also the following announcement:—

'It is now my pleasant duty to announce that some admirers of the late Mr. Pramatha Nath Bose to whom I have referred in my address, have decided to perpetuate the memory of this distinguished Geologist by the institution of a periodical award to be named after him. The Committee which has collected funds for this purpose is headed by our fellow member, Sir B. L. Mitter, and he has written to say that it is the intention of the Committee to offer to the Society a sum for the purpose of awarding a periodical commemoration medal for outstanding work in Geology, in the manner of the various other awards already in existence. This offer will be placed before the Council and I doubt not that the Council will gratefully accept it and gladly share in honouring the memory of its late eminent member.'

After these announcements the President for 1935 declared the Annual Meeting to be dissolved and invited the guests present to examine the collection of exhibits (See page 24) and the members present to reassemble round the table for the Ordinary Monthly Meeting for the election of members and transaction of business.

ANNUAL ADDRESS, 1934-35.

THE DEVELOPMENT OF SCIENTIFIC RESEARCH IN INDIA TO THE END OF THE NINETEENTH CENTURY.

CONTENTS.

	<i>Page</i>
I. INTRODUCTION	9
Deaths	9
150th Anniversary Celebrations	10
Academies and the National Institute of Sciences of India ..	11
II. EARLY DEVELOPMENTS IN SCIENCE	13
Development of Science in Europe	13
Hindu science	14
Arab science	15
III. THE DEVELOPMENT OF SCIENTIFIC RESEARCH IN INDIA IN THE EIGHTEENTH AND NINETEENTH CENTURIES	16
A. <i>Societies.</i> --	
The Asiatic Society	16
Branches of the Royal Asiatic Society	17
Other Societies	17
B. <i>Services.</i>	
Mint Assayers	18
Surveys	18
Geology	19
Botany	19
Indian Museum	19
Zoology	19
Meteorology	20
Applied sciences	20
Research Institutes	20
IV. SUMMARY OF DEVELOPMENTS IN THE TWENTIETH CENTURY ..	21
Specialist organizations	21
Co-ordinating organizations	21
The National Institute of Sciences of India	21
V. CONCLUSION	22

THE DEVELOPMENT OF SCIENTIFIC RESEARCH IN INDIA TO THE END OF THE NINETEENTH CENTURY.

I. INTRODUCTION.

At our last Annual Meeting, in February, 1934, I had the honour to occupy this Chair in place of Deaths. Sir Charu Chandra Ghose, who had been compelled during 1933 to resign on account of ill-health his office as President of our Society. On your behalf I voiced the hopes of you all that Sir Charu should soon be restored to health. Alas! our hopes were in vain, for during the year Sir Charu passed away and left Calcutta deprived of one of its leaders. An obituary notice of Sir Charu Ghose will be published in our *Proceedings*, but it will not be out of place to recall that

Sir Charu rose very high in his own profession, acting as Chief Justice of Bengal on several occasions, whilst in 1934, after an apparent partial restoration of health he accepted temporarily, knowing the risk to his life, the post of Member of the Council of the Governor of Bengal in the vacancy caused by the death of Sir Provash Chandra Mitter, another of our distinguished members. Those who had the privilege of the friendship or even acquaintanceship of Sir Charu Ghose will remember his old world courteous manners, and my colleagues on the Council of this Society will recall the urbanity with which he conducted the meetings of the Council.

We must also lament the death at a comparatively early age of Rai Bahadur Dr. S. R. Kashyap, Professor of Botany, Lahore. Dr. Kashyap was a Fellow of this Society, was President of the Indian Science Congress at the Bangalore session in 1932, and had been selected as one of the original Vice-Presidents of the National Institute of Sciences of India.

The death of Dr. Ekendra Nath Ghosh, Professor of Biology, Medical College, Calcutta, is specially to be regretted on account of his comparative youth and the versatility of his studies, both in Biology and in the ancient Sanskrit Shastras, Ayurveda and Hindu Astronomy.

Finally I must mention the death of the Rev. Father E. Blatter, S.J., of Bombay, who was not a member of our Society, but was the first recipient (in 1931) of the Brühl Medal, in recognition of his valuable botanical researches.

The most important event during 1934 to our Society was the celebration on 15th January, 1934, of the completion of 150 years since the founding of the Society on the same date in 1784. As you will remember our celebrations took the form of a *Conversazione* with exhibits in the Indian Museum, followed by a dinner in these rooms, at which we were honoured by the attendance of our Patron, His Excellency Sir John Anderson, Governor of Bengal. In continuation of this dinner a special meeting was held during which we received an address from His Excellency and I had the honour also of addressing you. We also elected 12 distinguished savants abroad—six men of letters and six scientists—as Special Anniversary Honorary Members, and received addresses from numerous learned societies both in India and abroad. One part of our celebrations remains unfinished. Your Council resolved to prepare and publish an Anniversary Volume recording the progress of the Society during the 50 years that have passed since the issue of the *Centenary Review* in which were recorded the activities of our Society during the first century of its existence. The first stage in the preparation of this Anniversary Volume was the compilation of a Bibliography of the papers published by the Society during the third half-century. This proved to be a bigger task

150th Anniversary
Celebrations.

than was anticipated as, in addition to the normal publications of the Society, we now publish the *Proceedings* of the Indian Science Congress, of which 21 volumes have been issued. However, the Bibliography has now been completed and the authors to whom the various sections of the Anniversary Volume have been entrusted may expect shortly to receive the portions of the Bibliography relating to their own subjects. It is a matter of some interest that at the time of our 150th Anniversary celebrations one of the authors of our Centenary Review was still alive, namely Mr. Pramatha Nath Bose, who wrote the Natural Science Section of that Review published in 1885. Mr. Bose, who was formerly an officer of the Geological Survey of India, passed away peacefully during 1934 shortly before his 80th birthday.¹

I had intended to propose one other step in connection with our Anniversary Celebrations, namely to start a special Anniversary Celebration Fund in aid of the labours of our Society. For we have much need of an income considerably larger than that we now enjoy! But unfortunately, on the very day of our celebrations, a disastrous earthquake occurred in North Bihar and Nepal, and the calls upon the generosity of the public to swell the Viceroy's Fund in aid of the sufferers from this cataclysm of Nature were so urgent and extensive that I deemed it inadvisable to make the appeal that was otherwise so desirable for the benefit of our own Society.

It was suggested during the year that one other measure might be taken in celebration of the 150th Anniversary of our Society, namely to apply for a Royal Charter. As you know, proposals were put before the members during the year and a large majority was obtained in favour of our proposal. On further examination of this proposal, however, we found that we had not clearly distinguished between obtaining a Royal Charter, which was a matter for the consideration of His Majesty's Privy Council and would not necessarily involve a change of name, and an application to modify the name of our Society by the addition of the predicate 'Royal', which is a prerogative of His Majesty the King. Accordingly this matter has not yet been carried to completion.

As you all know, during the past year scientists in India have been much exercised over proposals to found an Indian Academy of Sciences, for which purpose an *ad hoc* committee had been appointed by the General Committee of the Indian Science Congress Association at the session in Bombay in January, 1934. The cause of disturbance was the sudden foundation of a society of this name at Bangalore whilst the Academy Committee of the Indian Science Congress

¹ An obituary notice of Mr. P. N. Bose has already been published in the *Rec.*, *G.S.I.*, LXVIII, p. 240.

had the matter under consideration. This action of our Bangalore friends led to a very confused and confusing situation, which gradually became clarified when the true logic of the position became evident. For there were already in existence two Indian Academies of Science, although they had not taken this name. One was our Society, the Asiatic Society of Bengal, which is an Academy in the fullest sense, namely an Academy of Arts, Letters, and Sciences, and the U.P. Academy of Sciences founded in 1930. Once the Academy Committee of the Indian Science Congress were faced with the Bangalore *fait accompli*, it became evident that there were three Indian Academies of Sciences in the field and that the Academy Committee could suitably modify their activities so as to found a body to co-ordinate the labours of the three Academies and of any others that might subsequently be formed. As a result the National Institute of Sciences of India was founded exactly 4 weeks ago at an Inaugural Meeting in the Senate House of Calcutta University during the recent session of the Indian Science Congress, and the first Ordinary General Meeting of this Institute was held in these rooms on the following day.

Your Council had nominated me early in the year as representative of the Asiatic Society of Bengal on the Academy Committee of the Indian Science Congress, and it had fallen to my lot to act as Chairman of this Committee during the year, and to guide the Committee during its exceedingly difficult labours. And eventually I had the honour of being elected President of the newly formed organization, the National Institute of Sciences of India. In this capacity I was faced with the necessity of devising an Inaugural Address. In order to define the duties of the new organization and explain what should be its functions with reference to existing scientific organizations in India, of which the Asiatic Society of Bengal is by far the oldest and most distinguished, I found it desirable to discuss the course of the development of provision for scientific research in India. The draft of the address thus devised proved to be too long for a single occasion, and I decided, therefore, to adopt the procedure of one of your recent Presidents, Lt.-Col. R. B. Seymour Sewell, who was President of the Indian Science Congress held at Nagpur in 1930 and of this Society in the same year. Col. Sewell dealt with one subject—The Problem of Evolution—in his two successive Presidential Addresses, delivering the first part at Nagpur in January and the second part in these rooms in February. Col. Sewell was able to deliver his two addresses in their correct sequence; but in my case it seemed desirable to discuss before the National Institute of Sciences the later section of my subject, namely the development of scientific research in India in the Twentieth Century, and to reserve for our Society—the older body—the section dealing with such developments up to about the end of the Nineteenth Century.

II. EARLY DEVELOPMENTS IN SCIENCE.

Although in any country the development of science and the provision for scientific research must from the point of view of organization be restricted in the first place to a national basis as the major unit, yet, as we all know, Science is international in its relationships, and whatever is done nationally in Science must have international co-ordinations. In order to understand India's position with reference to the development of scientific research, we must, therefore, first glance briefly—very briefly—at the development of Science abroad.

It is well known that scientific investigations were made as early as the 4th or 3rd millennium B.C. in the form of astronomical observations by the Babylonians, and that the Egyptians had developed certain branches of mathematics, also by the third millennium B.C. The real birth of Science may, however, be assigned to the period of pre-eminence of the Grecian schools of Asia Minor, Greece, and Alexandria between 600 and 200 B.C. when such intellectual giants as Pythagoras, Hippocrates, Socrates, Plato, Aristotle, Theophrates, Euclid, and Archimedes flourished. Greece was at its Golden Age in 450–400 B.C. at Athens, and it is then that, according to some, Science really took its birth. Greek science including mathematics, astronomy, biology, medicine, physics and chemistry. The Roman Empire followed Greece, and with the break up of this Empire a thousand years of darkness descended upon the world until the Renaissance, the name given to the intellectual re-awakening during the 14th, 15th, and 16th centuries in Modern Europe. The Renaissance was preceded and rendered possible by the foundation of universities in Europe at Paris, Bologna, Salerno, Oxford, and Cambridge, beginning as early as the 11th century A.D. and based usually on old monastic schools; and the Renaissance itself can be dated really from the 13th century. The Renaissance was a period of efflorescence in all branches of learning—letters, art, science, and mathematics. It is not possible here, nor am I the competent person, to attempt to review the growth of science during the Renaissance, and it is sufficient for me to mention only such outstanding names as Roger Bacon, Leonardo da Vinci, Copernicus, Galileo, Francis Bacon, and Descartes, followed by Isaac Newton in the 17th century, to bring us down to the full tide of modern scientific research, with the foundation of the Royal Society of London in 1660 and of the *Académie royale des sciences* in France in 1666. The Royal Society of London has remained unchanged in name, but the French Academy of Sciences and other French Academies for other branches of learning became grouped in 1795 as the *Institut national des sciences et des arts*, a title which was simplified in 1816 to *l'Institut royal de France*, which

is now called the *Institut de France*. The Institute of France is composed of five academies, of which the Academy of Sciences is one, the other constituent academies being the *Académie française*, the *Académie des Inscriptions et Belles-Lettres*, the *Académie des Beaux-Arts*, and the *Académie des Sciences Morales et Politiques*, the Academy of Sciences being the third in order of seniority. As almost every country in Europe now has its Academy either of one branch of knowledge alone, such as science, art, or letters, or of two or more of these branches together, it is of interest to allude briefly to a passage in my Inaugural Address to the National Institute in which I mentioned that the original Academy was a garden in Athens once owned by Academus and utilized by Plato for some 50 years for teaching and discussion, and that this original Academy persisted for some 300 years from about 400 B.C. : so that the original Academy may be regarded as a philosopher's garden, in which philosophers discussed all branches of learning, arts, letters, science, mathematics, and philosophy *stricto sensu*. Clearly our Asiatic Society is an Academy in the fullest sense of the word and it is a pleasant thought that this beautiful building of ours must be regarded as spiritually a philosopher's garden, if such a mixed metaphor can be pardoned.¹

It must not be thought that during the whole of the several millennia between the early astronomical observations of the Babylonians and the introduction of modern science into India by Europeans, Asia has been scientifically asleep. The Hindus and the Arabs have also made their contributions. The Hindus in particular made advances in mathematical science following on the stimulus to intercourse with Europe resulting from Alexander's conquest. Amongst these mathematicians may be mentioned Bhaskara (c. A.D. 1120) for his contributions to algebraic notation. I have mentioned this name specially because it reappears now amongst modern Indian scientists in the person of the Director of the Nizamia Observatory at Hyderabad. All Hindu science in India may not date, however, from the introduction of Greek influence. For, in a recent paper read before our Society in 1934, Dr. S. L. Hora has shown that the ancient Hindus, as revealed in a passage in *Susrutasamhita* (c.a. 300 B.C.), had exact knowledge of the habitats of fishes and of the modes of their locomotion, and that Susruta's knowledge of the latter has been rediscovered only in the last few years by zoologists in America and England. It is known also that the Hindus had considerable knowledge of medicine and of chemistry as has been summarized for the latter in Sir P. C. Ray's 'History of

¹ The preceding paragraph is based largely on information given in K. M. Westaway's 'The Endless Quest, Three Thousand Years of Science', Blackie & Son, London (1934).

Hindu Chemistry', published in 1902. Further researches by oriental scholars into old Sanskrit and Pali texts may bring to light knowledge of other branches of science possessed by the ancient Hindus. Reference may also be made to B. N. Seal's work on 'The Positive Sciences of the Ancient Hindus', London, 1913, in which claims are made on this subject that are not accepted in full by all. Dr. Bains Prasad's paper 'Some Pre-Linnaean Writers of Indian Zoology' gives information concerning the knowledge both of the Hindus and of the Moghals.¹

It seems likely, indeed, that when the full range of knowledge of the ancient Hindus in the realms of science and mathematics comes to be known, as far as this is possible, it may prove to be partly indigenous and pre-Greek and partly based on Greek influence.

Although the first results of the Arab irruptions into ancient civilization in Asia and North Africa were disastrous, in that the Arabs completed the destruction of the world-famous library of Alexandria—a process already partly carried out by Christians about a century earlier,—yet, as so often happens, the conquerors soon settled down and took an interest in the learning of the conquered, collecting and translating Greek MSS, and also the works of Hindu writers, so that Arab science was built on Greek and Hindu science. The Arabs took a special interest in astronomy, chemistry, and medicine, and for further information on their contributions to science, reference may be made to the 'Legacy of Islam',² a fascinating work showing the influence of Islam upon European civilization. Although the Arab schools of Bagdad and elsewhere produced much work in science and mathematics, the special ability of the Arabs lay in arts, crafts, and industries, a special feature of Muslim civilization exemplified by the superb buildings, and the beautiful porcelains and tiles, manuscripts and pictures, carpets and metal work of Egypt, Mesopotamia, Persia, and India. There is still probably much to be learnt, however, concerning Arab knowledge of science as contained in ancient manuscripts, and here in India Stapleton, Azo, and Hidayat Hosain, and Maqbul Ahmad have during the past 30 years contributed translations of alchemical Arabic manuscripts to the *Memoirs of the Asiatic Society of Bengal*.³

¹ From Acharyya Sir P. C. Ray Commemoration Volume, Calcutta, 1932.

² Edited by Sir Thomas Arnold and A. Guillaume, Clarendon Press, Oxford (1931).

³ *Mem. Asiat. Soc. Bengal*, I, pp. 25–41 (1905); I, pp. 47–70 (1905); III, pp. 57–94 (1910); VIII, pp. 317–418 (1927); VIII, pp. 419–460 (1929); XII, pp. 1–213 (1933).

We are now in a position to trace briefly the development of science in India since the arrival of western civilization.

III. THE DEVELOPMENT OF SCIENTIFIC RESEARCH IN INDIA IN THE EIGHTEENTH AND NINETEENTH CENTURIES.

A. *Societies.*

The history of the modern development and study of science in India really commences with the arrival of Sir William Jones in October, 1783, as a Puisne Judge of the The Asiatick Society. Supreme Court at Fort William in Bengal. Sir William Jones was a distinguished scholar and linguist and was devoted to oriental researches, and he soon noted the want of an organized association in Calcutta as a drawback to progress.

‘Accordingly, while he engaged himself in the study of the Sanskrit language, which he had till then not acquired, he invited the co-operation of the leading men of the time in Calcutta for the formation of an institution where united action could be undertaken to promote the study of oriental literature and science, and where, by the co-operation of the many, the talents and abstract studies of the few would prove most effectual, and derive the stimulus which emulation, publicity, and a common interest never fail to excite.’

As a result, thirty gentlemen representing the élite of the European community in Calcutta at the time met on the 15th of January, 1784, and Sir William Jones delivered a ‘Discourse on the Institution of a Society for enquiring into the History, civil and natural, the Antiquities, Arts, Sciences, and Literature of Asia’. As a result of this address, the ‘Asiatick Society’ was founded.

Sir William Jones in his original address explained the objects of the Society in the following terms :—

‘You will investigate whatever is rare in the stupendous fabric of nature ; will correct the geography of Asia by new observations and discoveries ; will trace the annals and even traditions of those nations who, from time to time, have peopled or desolated it ; and will bring to light their various forms of Government, with their institutions, civil and religious ; you will examine their improvements and methods in arithmetic and geometry—in trigonometry, mensuration, mechanics, optics, astronomy and general physics ; their systems of morality, grammar, rhetoric and dialectic ; their skill in chirurgery and medicine, and their advancement, whatever it may be, in anatomy and chemistry. To this you will add researches into their agriculture, manufacture, and trade ; and, whilst you enquire into their music, architecture, painting, and poetry, will not neglect those inferior arts, by which comforts, and even elegances of social life, are supplied or improved.’

And he added :—

‘If now it be asked, what are the intended objects of our enquiries within these spacious limits, we answer, Man and Nature ; whatever is performed by the one, or produced by the other.’

The comprehensive phrases of Sir William Jones have since been paraphrased into :—

‘The bounds of its investigations will be the geographical limits of Asia, and within these limits its enquiries will be extended to whatever is performed by man, or produced by nature.’

It is clear, therefore, that in its original scope the Asiatic Society was to include all the functions carried out by the Institute of France in its five constituent academies.

That the Society did, in fact, live up to this ideal during the first century of its existence can be judged by any one who reads the Centenary Review of the Researches of the Society, 1784–1883. In this volume it is claimed that the first century’s record of services include the provision of a commodious house for scholars, the making of a library, of a collection of ancient coins and medals, of a collection of pictures and busts, and the formation of Archæological, Ethnological, Geological, and Zoological collections or Museums. In addition, the Asiatic Society had published 354 volumes of works of various kinds.

For some time the Asiatic Society was the only learned society in India, but in 1823 a new Asiatic Society, the Asiatic Society of Great Britain and Ireland (later the Royal Asiatic Society of Great Britain and Ireland) was formed in London by Henry Thomas Colebrook, a former President of our Asiatic Society, and this led to our Society, the original Asiatic Society, being designated the Asiatic Society of Bengal for ease of identification. Branches of the Royal Asiatic Society of Great Britain and Ireland were later established in Bombay, Madras, Colombo, and Singapore, but they have never been serious rivals of the Asiatic Society of Bengal.

The Bombay Branch, which still persists, has absorbed two other societies during its existence. For the Literary Society of Bombay founded in 1804 became the Bombay Branch of the Royal Asiatic Society of Great Britain and Ireland in 1835, and the Bombay Geographical Society founded in 1831 was amalgamated with the Bombay Branch of the Royal Asiatic Society in 1873. These two absorbed Societies are represented by three volumes of *Transactions* of the Literary Society of Bombay (1819 to 1823) and 19 volumes of *Transactions* of the Bombay Geographical Society (1844 to 1874). In Madras a society called the ‘Madras Literary Society and Auxiliary of the Royal Asiatic Society’ appears to have commenced work in 1833, and published a Journal entitled first the *Journal of Literature and Science* and then the *Madras Journal of Literature and Science*, which continued to 1894.

Two other Societies formed during the past century deserve notice. One is the Agricultural Society of India founded in Calcutta, 1820, the title of which was changed to Agricultural and Horticultural Society

Branches of the Royal
Asiatic Society

Other Societies.

of India by 1823, and later to Agri-Horticultural Society of India, the present title. This Society's publications date from 1829 (*Transactions*) and are still issued as the *Journal and Proceedings*. The other Society is the Bombay Natural History Society founded in 1883, and the publisher of the excellent and well-known *Journal* from 1886 to date. There appears to have been no long-lived separate medical society, but the *Indian Medical Gazette* published in Calcutta since 1866 has provided for the publication of medical researches in India.

B. Services.

During the early days of the East India Company there were no scientists employed as such, although the Company entertained the services of medical officers, surveyors, and assayers at the mint. As a consequence the early scientific work of India was practically all amateur work done in spare time by medical men who were interested in science, by enthusiastic army officers, and by officers in civil employ.

There were assayers at the Calcutta Mint as early as 1792, when Robert Blake was Assay Master
 Mint Assayers. but more important dates to us are 1816, when Dr. Horace Hayman Wilson was appointed Assay Master, and 1833 when he was succeeded by James Prinsep after several years at the Mint Office at Benares. Wilson and Prinsep were, as you know, two of the most famous and learned men who have adorned the rolls of our Society, the memory of James Prinsep being perpetuated by 'Prinsep's Ghat', built by public subscription. The assayers and medical men were, I suppose, the earliest of the modern chemists in India, but they were not employed as research officers.¹

The first scientific service to be established in India was the
 Surveys. Trigonometrical Survey of the Peninsula with Colonel Lambton as the first geodesist, in 1800. This was changed to the Great Trigonometrical Survey in 1818, also under Lt.-Col. Lambton. There were also Topographical and Revenue Surveys and all these were grouped in 1817 under the first Surveyor-General in India, Lt.-Col. Colin Mackenzie.² This title has persisted unchanged down to the present day. The three surveys were united in 1878 as the Survey

¹ The Assay Department of the Calcutta Mint was closed in 1923 as a measure of retrenchment, but there is still an Assay Department at the Bombay Mint. The earliest recorded Mint Master in Calcutta dates from 1781, and it is of interest that Wilson is recorded as having been Mint Master—presumably officiating—as early as 1814, that is two years prior to becoming Assay Master. I am indebted to Col. Stagg, the present Master of the Mint, Calcutta, for these details.

² Major James Rennell was Surveyor-General of Bengal as early as 1767.

of India and the Trigonometrical Survey became the Geodetic Branch in 1924, a famous departmental name thus disappearing.

There were geologists in Government employ as early as Dr. Voysey in 1818, Mr. Williams (1846 to 1848), and Dr. McClelland (1848), who, as Geological Surveyor to Government, immediately preceded Dr. Oldham. The Geological Survey of India as a Department was not, however, founded until 1851 when Dr. Thomas Oldham arrived in India for the purpose.¹ Even then this Department appears to be the oldest scientific service in India *stricto sensu*.

Provision for botanical study has existed in India since an early date, for the Calcutta Botanical Gardens, now the Royal Botanic Gardens, were founded at Sibpur in 1788 at the instance of Col. Alexander Kyd, who unofficially held the post of Superintendent of the Gardens. Officially the first Superintendent of the Gardens was Roxburgh, and this post has since been held by a succession of distinguished botanists. In 1889 the Botanical Survey of India was founded and the Superintendent of the Gardens became the Director, Botanical Survey of India, Brigade-Surgeon G. King, afterwards Sir George King, being the first officer to fill this post. From 1793, at least, there has been no break in the continuity of the botanical work at Sibpur, and official provision for botanical work in India thus precedes that for any other science.

The next important step to notice is that the growing collections of the Asiatic Society led in 1866 to the passing of the first Museum Act, under which the Society transferred its zoological, geological and archæological collections to a Board of Trustees, and the Indian Museum was formed. The geological collections were entrusted to the Geological Survey and the zoological and archæological collections placed under a Superintendent, who became known as the Superintendent of the Indian Museum. This was not, however, the first step in the provision for zoological research in India, and we can go back at least as far as 1841 when

Edward Blyth was appointed Curator of the Society's museum, to be succeeded in 1865 by John Anderson, who became the first Superintendent of the Indian Museum on its foundation in 1866. In 1916, when the late Dr. Nelson Annandale, one of your past-Presidents, was Superintendent, the Zoological Section of the Museum was converted into the Zoological Survey of India with Dr. Annandale as the first Director. This Department, although in name but a recent one, really dates historically, it will be seen, from the foundation of the Indian Museum in 1866.

¹ William Theobald who had arrived in India in 1849 was transferred to this service.

The early meteorological observations in India were made at observatories established by the East India Company, the first being the Madras Astronomical Observatory opened in 1792 with meteorological observations dating from 1796, and the Colaba Observatory completed in 1826 with meteorological observations dating from 1841. In Calcutta an observatory was maintained in the Survey Office building in Park Street from 1824, until the completion of the Alipore Observatory in 1875. In 1857 the Asiatic Society of Bengal appointed a committee which, after the interruption caused by the Mutiny, drew up a report to Government in 1862, and as a result our Society was asked to formulate a scheme for a controlling authority capable of directing and utilizing the work of observers in India. H. F. Blanford, after 7 years service in the Geological Survey of India, was appointed Professor of Science in the Presidency College, Calcutta, and in 1867 became Meteorological Reporter of Bengal. Finally the Government of India decided to appoint a Meteorological Reporter for the whole of India, and H. F. Blanford was transferred to this post in 1875, which may be taken as the date of foundation of the Meteorological Department of the Government of India. This Department is now responsible for the maintenance of numerous observatories and observing stations throughout India. The present title of the head of the service is Director-General of Observatories.

Provision for research in the applied sciences Agricultural, Forests, Medical, and Veterinary research, Applied sciences, has come at a much later date than for the surveys, geology, botany, zoology, and meteorology, and belongs in the main to the 20th century, but may conveniently be mentioned here.

In Agriculture provincial Departments of Land Revenue and Agriculture, or of Agriculture alone, Research Institutes, were formed towards the end of the century: Bombay (1885), Madras (1889), Shillong (1894), Allahabad and Nagpur (1895) and Bengal (1896), followed by the Indian Agricultural Research Institute at Pusa in 1903. For Veterinary work the Imperial Bacteriological Laboratory was opened at Poona in 1890, moved to Muktesar in 1893, and the title changed to Imperial Institute of Veterinary Research in 1925. The Forest Research Institute at Dehra Dun was opened in 1906. All-India provision for Medical Research is represented by the Central Research Institute founded at Kasauli in 1906 and the All-India Institute of Public Health and Hygiene founded in Calcutta only last year (1934). There are also, of course, medical research institutions provincially administered, such as the School of Tropical Medicine, Calcutta, and the Haffkine Institute, Bombay.

Mention may also be made of the Indian Institute of Science

founded at Bangalore in 1911, supported mainly by private bequests supplemented by Government grants, and directed to research and advanced scientific education.

IV. SUMMARY OF DEVELOPMENTS IN THE TWENTIETH CENTURY.

With the formation of research institutes we have, however, entered the present century, and the developments for the organization of scientific research in this century formed the subject of my Inaugural Address to the National Institute of Sciences of India, to which a reference has already been made. For the sake of completion I may mention that in that Address I show that the 20th century in India has been a period of foundation of numerous specialist societies, of research institutions, and of new universities in addition to those founded in the 19th century, which were the Universities of Bombay, Calcutta, and Madras, all founded in 1857, the University of the Punjab (1882), and the University of Allahabad (1887).

I point out in the Address referred to that with the continuous birth of new specialist bodies, services, societies, universities, research institutes, there is a rapidly increasing tendency to specialization, with resultant isolation of workers, with an increasing need for organizations directed to counter-acting fissiparous tendencies so as to bring men of science and of other branches of learning back to a common fold. I mention the Board of Scientific Advice consisting of the heads of the Government of India scientific departments founded in 1902 and suspended in 1924. I refer also to the Indian Research Fund Association (1911) and the Imperial Council of Agricultural Research (1929) formed specially to deal with the needs of medical and agricultural research respectively, and to the Indian Science Congress of which the inaugural meeting was held in 1914 in these rooms and which is managed by our Society.

I cannot close this Address without referring briefly to the new National Institute of Sciences of India. I have mentioned in the Introduction to this Address the circumstances that led to the foundation of the National Institute of Sciences of India only four weeks ago. The aims and objects of that Institute were discussed in my Inaugural Address and need not be repeated here. Suffice it to say that the main aims of the National Institute are to act as a co-ordinating body for scientific organizations in India and to lay the foundations, if necessary, for the formation of a National Research Council in this country. In order to encourage effective co-operation, provision has been

made for an additional Vice-President and an additional Member of Council on the Council of the National Institute representing each of the three co-operating Academies and the Indian Science Congress; and your Council has nominated Sir Upendra Nath Brahmachari and Mr. C. C. Calder respectively as additional Vice-President and additional Member of Council representing your Society in the Council of the National Institute.

It is known to all of you and is also brought out in the earlier portions of this Address that the Asiatic Society of Bengal has been the mother either directly or indirectly of a large proportion of the scientific research done in India: it is appropriate, therefore, that we should have offered hospitality to the National Institute of Sciences in the form of office accommodation for such time as it suits the interests of this Institute to locate its headquarters in Calcutta.

V. CONCLUSION.

The general theme of this address and of my address to the National Institute of Sciences has been the development of scientific research in India. Starting with the comprehensive treatment of such research provided for by the foundation of the Asiatic Society of Bengal in 1784, the subsequent story has been, until recently, one of increasing specialization. This specialization was slow until after the middle of the nineteenth century, when the tendency began to develop force. By the beginning of the twentieth century, rapidly increasing specialization with the formation of a multitude of new specialist organizations was in full swing. But fortunately at about the same time the necessity for co-ordinating bodies became recognized, and this has led successively to the formation of the Board of Scientific Advice (1902-1924), of the Indian Science Congress Association (1914 to date) and finally of the National Institute of Sciences of India. This final development is in accordance with the genius of our Society, for concurrently with the spate of specialist tendencies and activities, your Society has always maintained its broad general basis, showing its generosity as the mother of new developments often of a specialist nature whilst preserving its position as a philosopher's garden where all may walk and talk. Suddenly we find that we are in fashion again, for the pendulum is swinging our way. And as you will find from the Report of your Council we are considering measures to meet the swing of the pendulum.

'There is a tide in the affairs of man which, taken at the flood, leads on to fortune.'

L. L. FERMOR.

OFFICERS AND MEMBERS OF COUNCIL ASIATIC SOCIETY OF BENGAL, 1935.

*Elected and announced in the Annual Meeting,
4th February, 1935.*

President

L. L. Fermor, Esq., O.B.E., A.R.S.M., D.Sc. (London),
F.G.S., M.Inst.M.M., F.R.S., F.A.S.B.

Vice-Presidents

Sir David Ezra, Kt., F.Z.S., M.B.O.U.
Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A.,
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The Hon'ble Sir B. L. Mitter, K.C.S.I., Kt., Barrister-at-
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Other Members of Council

L. R. Fawcett, Esq., B.A. (Cantab.), I.C.S.
Percy Brown, Esq., A.R.C.A., F.A.S.B.
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at-Law.
C. C. Calder, Esq., B.Sc., F.L.S.
N. G. Majumdar, Esq., M.A.

EXHIBITION ANNUAL MEETING

LIST OF EXHIBITS SHOWN AFTER THE ANNUAL MEETING OF
THE ASIATIC SOCIETY OF BENGAL, ON THE 4TH
FEBRUARY, 1935.

1. A. F. M. ABDUL ALI.

Miscellaneous Historical Documents.

- (1) List of Fees of the Chaplaincy of Fort William.

(H.D. Pub., 26 Oct., 1761, No. 3.)

- (2) Letter from the Chaplains and Church Wardens requesting that the Engineer should be directed to build the Church in the New Fort.

(H.D. Pub., 12 Nov., 1764, No. 7.)

- (3) Estimate of the expenses incurred by the gentlemen of the Vestry on account of the building of the Church and its establishment, and of those to be incurred for further additions and improvements to the Church.

(H.D. Pub., 23 Oct., 1789, No. 10.)

- (4) Letter from Mr. Charles Floyer, Mint Master, intimating that the new ten *Sun Sicca* Rupees have been struck in the Calcutta Mint and that a gratuity has been paid to the several Artists employed therein, and forwarding a few new Moorsheadabad *Sicca* Rupees stamped differently which had been found accidentally.

(H.D. Pub., 27 June, 1769, No. 4.)

- (5) Proceedings of the Committee for enquiring into the causes of the scarcity of silver coin.

(H.D. Pub., 6 Dec., 1787, No. 28.)

- (6) Copy of letter from Lieut.-Col. Archibald Campbell and Major Henry Watson submitting proposals relative to the construction of docks, etc.

(H.D. Pub., 27 Mar., 1770, No. 2a.)

Particular proposals of Lieut.-Col. Archibald Campbell and Major Henry Watson relative to the construction of the projected docks, etc., near the mouth of Surman's *nulla*.

(H.D. Pub., 27 Mar., 1770, No. 3a.)

Boards' minute resolving that Col. Campbell and Major Watson should be tied down by certain engagements to secure the docks to the Company but that no contract should be made with them to determine the price.

(H.D. Pub., 27 Mar., 1770, No. 4a.)

- (7) Governor-General's minute, proposing certain regulations for the prevention of the breaking out of fire in the town of Calcutta.

(H.D. Pub., 27 Mar., 1780, No. 31.)

- (8) List of damages made by fires in the town of Calcutta from the 29th February, 1780.

(H.D. Pub., 10 Apr., 1780, No. 3.)

(9) Letter from Lieut.-Col. J. Fortnom, Chief Engineer, submitting the plans of Fort William.

(H.D. Pub., 24 Mar., 1775, No. 1.)

(10) Draft of a letter to Monsr. Chevalier, acquainting him with the provisions made for the subsistence of the Frenchmen at Chander-nagore and for the disposal of the captured property, and requiring him to come to Calcutta, or to depart for Europe.

(H.D. Pub., 2 Sept., 1778, No. 11.)

(11) Petition of the Greek inhabitants of Calcutta, requesting permission to erect a chapel.

(H.D. Pub., 11 Apr., 1774, No. 4.)

(12) Translation of a petition from Ghulam Haidar Khan, *Vakil* to the *Zemindar* of Birbhum, forwarding an address, on the administration of W. Hastings.

(H.D. Pub., 9 Jany., 1789, No. 24.)

(13) Translation of a petition from Muhammad Muhayyud-din Khan, *Vakil* to Khan Jahan Khan Bahadur Jasarat Jang, forwarding an address.

(H.D. Pub., 9 Jany., 1789, No. 25.)

(14) Translation of a similar address from *Maharaja* Raghunath-naram of Patchete.

(H.D. Pub., 9 Jany., 1789, No. 26.)

(15) Translation of a petition from Mir Zahid and others to Mr. E. Hay, Secretary, forwarding an address.

(H.D. Pub., 9 Jany., 1789, No. 27.)

(16) Translation of a petition from Ranje Chand Roy and other inhabitants of Calcutta to Mr. E. Hay, Secretary, forwarding an address.

(H.D. Pub., 9 Jany., 1789, No. 28.)

(17) Letters from Messrs. T. Motte and E. Maxwell, Superintendents of Police, suggesting measures for reducing the high price of provisions, and enclosing a plan for regulating the wages of menial servants.

(H.D. Pub., 3 Apr., 1786, No. 25.)

(18) Plan for regulating wages aforesaid.

(H.D. Pub., 3 Apr., 1786, No. 26.)

(19) Minute of the Governor-General, requesting that the sums of money which he advanced for the purchase of the ground on which the Calcutta Madrassah has been erected, and for the expenses of the institution itself, be returned to him and that the Committee of Revenue be directed to pay *Sicca* Rupees 1,200 per month, for the support of the institution.

(H.D. Pub., 3 June, 1782, No. 2.)

(20) List of the *kowallahs* and receipts given for the ground upon which the Madrassah stands, and of the sums paid for the same.

(H.D. Pub., 3 June, 1782, No. 3.)

(21) Copy of a letter from Mr. E. Tiretta, Surveyor to the Commissioners of Police, submitting with his observations a list of the names of the roads and lanes repaired.

(H.D. Pub., 10 Feb., 1790, No. 16.)

(22) Copy of a letter from Mr. E. Tiretta, Surveyor to the Commissioners of Police, submitting the names of the roads repaired in the Black Town.

(H.D. Pub., 10 Feb., 1790, No. 17.)

(23) Petition from Ramratan Sarma, Darpanarayan Sarma, Ramchandra Sarma and others, native inhabitants of Calcutta, representing that robberies and outrages have been more frequent and alarming in Calcutta than before, and soliciting that steps may be taken to redress their grievances.

(H.D. Pub., 31 Aug., 1791, No. 41.)

(24) List of subscribers to the above petition.

(H.D. Pub., 31 Aug., 1791, No. 42.)

2. K. BISWAS.

Algal Vegetation within the tidal zones of the river Hooghly.

Blue green, brown and green deposits of algal vegetation are noticed on pebbles, bricks, wood, and other substrata along the banks of the river Hooghly and on the sides of floating buoys and ferry steamers. Examination of these deposits reveal a number of interesting algae as illustrated. *Lomentaria articulata* (Hud) Lyngb. var. *angustior*—observed from Cherbourg, France, is the most common brownish pink deposit within the tidal zones. This alga is profusely coated with two diatoms *Melosira varians* Ag., and *M. Dickiei* (Thwait) Kurtz. *Coscinodiscus radiatus* Ehr. collected by Lt.-Col. Seymour Sowell from the Bay of Bengal at a depth of 700 fathoms has been caught in this river in front of the Royal Botanic Garden, Calcutta, by the plankton net both during high and low water. The green alga covering the bricks of the embankment is *Rhizoclonium riparium* Herv.

3. J. K. BOSE.

(1) *Head Hunter's Dress.*

To be found amongst the Nagas. It was the distinctive dress of a person who had actually taken a head.

(2) *Sheet-cloak of the Tangkhuls.*

Besides an insignificant loin cloth this is the only garment used by the Tangkhul Nagas of Manipur (Assam). The decorative patterns are the same in all cases.

(3) *Sheet-cloak of the Marrings.*

The coloured border indicates the tribal division to which the wearer belongs.

(4) *Ear ornaments of the Marrings.*

Used only by the young men of the Marrings.

(5) *Fire-making by sawing by the Marrings.*

The fire is kindled by the following method :—‘One foot is placed on the unsplit end of the stick and the thong drawn under the fork in the notch and pulled swiftly to and fro until a spark catches in the tinder when a little blowing soon produces a flame’.

(6) *Neolithic Stone celt found in Manipur, Assam.*

(7) *Tobacco boxes of the Garos.*

These boxes are kept hanging from the waist with raw tobacco inside.

4. J. K. BOSE and J. K. GAN.

A Musical Instrument of the Garos.

A musical instrument in which string and percussion method are working simultaneously. This type of instruments is becoming obsolete.

5. PERCY BROWN.

A portrait of Prince Dara Shikoh, eldest son of Emperor Shah Jahan.

Painted by Humbar, c. A.D. 1650.

6. C. C. CALDER and K. BISWAS.

Original manuscript of Dr. William Roxburgh.

Dr. William Roxburgh succeeded Lt.-Col. Robert Kyd, the founder of the Royal Botanic Garden, Calcutta, in the year 1793, as the first official Superintendent of the then East India Company's Botanic Garden at Sibpur. Dr. Roxburgh, for many years prior to his transfer, had been engaged in studying the then little known flora of the Northern Circars in the Madras Presidency. He was a most ardent and enthusiastic botanist, and a good gardener. Dr. Roxburgh continued to be Superintendent until 1813, when he was obliged to proceed to the Cape on account of his health. From the Cape he went on to St. Helena, and from thence to Scotland, where he died in 1815. Dr. Roxburgh was the first botanist who attempted to draw up a systematic account of the plants of India. During his busy life in this country, he prepared a 'Flora Indica' which contained systematic descriptions of all the indigenous plants known to him, as well as of many exotics then in cultivation in this Garden and in the neighbourhood of Calcutta. The manuscript of this work he took with him when he left India, intending to publish it during his residence in Scotland. His death prevented the execution of this plan; and with the exception of the first volume, which was printed (in two parts) with some additions and interpolations by Drs. Wallich and Carey in 1820, the work remained unpublished until 1832. In the latter year it was printed, exactly as the author had left it, by the pety of his sons, Captains James and Bruce Roxburgh, neither of whom was a botanist. This book is the basis of all subsequent Indian botanical works. It is an admirable production: the descriptions are accurate and graphic, and its authorship justly entitles Roxburgh to his title of 'the father of Indian botany'. A second edition of this excellent Manual was issued by Mr. C. B. Clarke in 1874, at a merely nominal price. Mr. Clarke's desire being to put the book within the reach of the poorest student. The original manuscript of this 'Flora Indica' is exhibited.

7. H. C. CHAKLADAR and J. K. GAN.

A Cranium, belonging to the Muchis of Bengal, in which is found the OS MALARE BIPARTITUM, otherwise known as the OS JAPONICUM, so rare in Indian Crania.

8. K. N. DIKSHIT.

- (1) *Stone image of Karttikeya from North Bengal.* Ht. 2' 8" × br. 1' 2".

This image, recently presented to the Indian Museum, is one of the most beautiful specimens extant of the Pāla art of Bengal. The god is represented as sitting in an easy posture on a peacock, and his youth and beauty, for which he is famous in Bengal, are more in evidence than his power and austerity as in other examples. The peacock with its proudly raised neck and unfurled plumage has a strikingly graceful form. The image dates from the 11th century A.D.

- (2) *A new Andhra coin.*

This unique coin was found in the Central Provinces and belongs to the Mahakosala Society, Raipur. It bears the figure of an elephant and Brahmi legend only on the obverse, the reverse being blank. The king's name is Sivasiri Āpilaka, who is no doubt to be identified with the Āpilaka of the Puranas, but is known from no other epigraphical source. The authenticity of the tradition embodied in the dynastic portion of the Purana is thus confirmed, but on numismatic grounds the place of this ruler is more with the later kings of the Andhra Dynasty than with the earlier ones as indicated in the Puranas.

- (3) *Terracotta matrix from Mahanad, Dist. Hughly.* Ht. 4½" × br. 3".

The ancient site of Mahanad in the District of Hughly has in recent years yielded several antiquities, among which is the terracotta matrix of a standing male figure which comes down from the Gupta period.

- (4) *Two silver punch-marked coins from Rajshahi.*

These coins are among the first punch-marked coins to be brought to light in Bengal and the study of the symbols on them will contribute to the understanding of the regional symbols on this most ancient coinage of India.

- (5) *Two silver punch-marked coins from Mathura.*

The punch-marked coins from Mathura form a special class distinguished by the concave shape and various distinctive symbols.

- (6) *One gold coin of Sasanka from Mahanad, Dist. Hughly.*

9. L. L. FERMOR.

Ten Persian saddle-bags.

The first three of these are from Niris, which lies to the east-south-east of the lake of this name, and the other seven from Shiraz, which

lies to the west of Lake Niris in Persia. In all probability, originally all these bags were in pairs like No. 10. The ones of greatest interest are No. 2 from Niris, with its futurist design, No. 4 from Shiraz with its swastika, and No. 9 from Shiraz with its four horsemen.

10. J. K. GAN and S. SINGH.

Cast of Australopithecus africanus.

Cast of the skull discovered at Taungs, Bechuanaland, and S. Africa. It represents 'the young stage of an ape, conceivably not very far from the direct ancestral line of mankind'.

11. GEOLOGICAL SURVEY OF INDIA.

(1) *Skull of the Rhodesian Man (Cast). (Homo rhodesiensis.)*

This skull, discovered in 1921 in the Broken Hill Mine, Northern Rhodesia, has close affinities with Neanderthal Man. There are features also which seem to indicate that this was nearer to the Chimpanzee and the Gorilla than was Neanderthal Man. The Rhodesian Man is to be regarded as an independent development of the nascent Neanderthal stock, an opinion which would explain both the resemblances to and the differences from the Neanderthal race.

(By exchange with the British Museum.)

(2) *Skull, jaw and teeth and the brain cast of the Peking Man. (Sinanthropus pekinensis. Black.)*

These bones of one of the oldest of the races of Palæolithic men were discovered near Peking, China. The endocrinal cast is that of an adolescent skull.

(By presentation from the late Prof. Davidson Black.)

(3) *New Indian Fossil Primates (anthropoid apes).*

(Casts received from the Peabody Museum.)

Discovered from Haritalyangar, Bilaspur State.

- (1) *Ramapithecus brevirostris.*
- (2) " *hariensis.*
- (3) *Dryopithecus sivalensis.*
- (4) " *cautleyi.*
- (5) " *sp.*
- (6) *Sugrivapithecus salmontanus.*
- (7) *Bramapithecus thorpei.*
- (8) *Indraloris lulli.*
- (9) *Adælontherium incognitum.*

(4) (1) *Collection of Cambrian fossil Trilobites from Kashmir.*

(2) *Permo-Carboniferous Fishs in Volcanic ash-beds from Kashmir.*

(Coll. D. N. Wadia.)

(5) *Ice-scratched pebbles from the Talchir Boulder-bed, Salt Range, Punjab.*

Ice-scratched pebbles from the Talchir series of the Salt Range, Punjab. These are the moraines left by the glaciers of Upper Carboniferous age capping the Archæan highlands of Rajputana. Some of the characteristic rock-types of Rajputana Aravallis are represented in this moraine material.

(Coll. E. R. Gee.)

(6) *A large crystal of quartz recently acquired by the Geological Survey of India.*

It comes from a locality between Pokhra and Mount Dhaulagiri in Nepal, and is said to have been found in snow-covered soil. It is a six-sided prismatic crystal whose terminations clearly show that it is twinned. It has a maximum length of 14 inches, thickness of 8 inches and weighs 44 lbs. (avoir.).

(7) *A set of specimens of manganese ore (mainly psilomelane) collected by Dr. E. Spencer of Messrs. Bird & Co., from their mines near Barabil in Kconjhar State. B. & O., and presented to the Geological Survey of India.*

They show very fine banding attributable to the deposition of ore by underground waters.

12. M. MAHFUZ-UL HAQ.

(1) *The Persian Dīwān of Nawwāb Shukr-ullāh Khan, Khāksār, an official of the Court of the Emperor Aurangzib.*

The MS. contains additions and emendations in the poet's own hand.

(2) *A Bayāz, or a selection of the verses of numerous Persian poets, made by Muhammad Bakhsh, Ashūb.*

The entire MS. is in the handwriting of the poet himself.

(3) *A Wasli, containing a specimen of Nast'aliq writing, by Mansū Rām, a Hindu Calligraphist of the 19th Century.*

13. SUNDER LAL HORA.

(1) *A fishing hook used for mud-fishing in Bihar.*

During October 1934, while staying at Pusa, I came across an ingenious device for catching mud-fishes, especially 'Ditch Eels' (*Mastacembellidæ*) and 'Snake-headed Fishes' (*Ophicephalidæ*). The fishes live at the bottom in marshy areas and are capable of directly breathing the atmospheric air. When the marshes begin to dry, they retire underground and aestivate.

The hooking device exhibited is lashed to a piece of bamboo stick of the desired length and strength for working in different depth of water. The hook is moved in the bottom mud close to the surface in an oblique direction sideways. As soon as some object is hooked,

the implement is pulled out and the object disengaged by a jerking movement. I was informed that in this way a maund or two of fish are sometimes caught by a single person in a day.

THE PRINCIPAL MUD-FISHES USUALLY HOOKED WITH THIS DEVICE ARE ALSO EXHIBITED.

(2) *An ingenious device used for crab-fishing at Uttarbhag, Lower Bengal.*

When the tide recedes from the muddy banks of the *Piali Nadi* at Uttarbhag, small boys are often seen pulling out crabs from holes by means of the fishing device exhibited. The implement consists of a blunt iron hook, lashed to a piece of split bamboo, the length of which depends upon the individual using it. When a crab hole is located, the hook-end is thrust into it and the rod is moved up and down till the crab is securely hooked. The swimming crab, *Scylla serrata*, which is also exhibited, is the principal food-species that is sought after in this way.

(3) *A diseased specimen of rainbow trout from Kashmir.*

In April 1934, there was a heavy mortality of rainbow trouts in the Kashmir Hatcheries, and it was noticed that only mature individuals of over 3 years of age were effected. The casualties included both cocks and hens, though the former suffered more.

The principal diagnostic features of the disease were (i) bulging eyes, (ii) edges of fins ragged and turned white, and (iii) large white marks below gills.

Post-mortem examination of the material showed that the fungus *Saprolegnia* was responsible for the epidemic. During the breeding period the males hollow out the spawning grounds by scattering pebbles, etc., by strokes of the fins. The females complete the task begun by the males. Bodily injuries are sustained during this process and bruises, wounds and abraded surfaces become liable to attacks by the fungus. The unusually mild winter of 1934 in Kashmir seems to have acted as a predisposing factor for the spread of the disease which had never been noticed in the valley before.

The remedy consisted of treating the hatcheries with a weak solution of Potassium permanganate, and of improving the sanitation of the hatcheries by the removal of weeds and the cleaning of shores. Within a short time the epidemic was successfully checked.

14. R. K. JALAN.

(1) *A beautiful manuscript of the Būstān of Sa'dī, with a double-page illuminated 'Unwān at the beginning, and variously-coloured gold-splashed margins.*

The manuscript which was transcribed by the famous calligraphist Sultān Husayn in 987 A.H. (1579 A.D.), contains four full page miniatures in the finest Persian style.

(2) *The Diwān of Hāfiz, copied in a beautiful Nasta'liq hand by Sultān 'Alī, in 981 A.H. (1573 A.D.).*

The manuscript which is preceded by the *Dibācha* of Hāfiz Gulandām, contains rich designs of birds, animals and human beings on the margin and 8 miniatures in fine Persian style.

(3) *Leaves from an illuminated MS. of the Qur'ān.*

The margins contain beautiful ornamental designs. The text is written in *Naskh* and the Persian translation in *Nasta'liq*.

(4) *A MS. of Muḥammad Kāzīm's 'Alamgīr Nāma, containing fine miniatures in late Mughal style.*(5) *A MS. of Farīd-ud-Dīn 'Aṭṭār's Manṭiq-ut-Tair, written in fine Nasta'liq and containing miniatures in early Timurid style.*

Not dated; apparently 9th century Hijra.

15. JOHAN VAN MANEN.

(1) *A Lhasa Maṇḍala.*

In Lhasa, in the market place near the Cathedral, there is a stūpa known as the Kani Gobshi. It is hollow and has four doors (go-bshi), hence the name. The ceiling of the inside chamber is covered by a fresco representing a maṇḍala. This stūpa, or chorten, has not yet been described in full. In consequence of a report concerning it the exhibitor has made the attempt to obtain detailed information. Through the great kindness of Mr. F. Williamson, I.C.S., Political Officer in Sikkim, Gangtok, he has received a coloured copy of the remarkable fresco made *in loco*. It represents the eleven-headed Avalokiteśvara in the centre, surrounded by four Buddhas. The seven precious gems are depicted around the latter in each of the four corners and are enclosed in a lotus garland. The maṇḍala itself is surrounded by a frieze showing the Green Tāra, eight times, in each half-quarter of the compass. Each Tāra has an attribute in the following order: elephant, lion, snake, fire, water, iron chain, pilgrim, and demon.

(2) *Six China Plates representing the three famous Buddhist Pilgrims.*

The plates exhibited represent the three famous Buddhist Pilgrims, Fa Hsien, Hsüan Tsang, and I Tsing. The period mark gives the date of manufacture as that of Hsüan Ho, the one but last Emperor of the first Sung Dynasty, i.e. A.D. 1119. Though this early date is unbelievable the unsolved problem of real date and origin is of interest.

(3) *Three large ferruginous concretions, composed mainly of limonite and haematite.*

These specimens are said to have come from some unspecified locality in China. Limonite is a common ore of iron, and is formed in meadows and marshes. It seems likely that these specimens were formed by the accretion of limonite around some substance which may since have disintegrated or been artificially removed, leaving the hollow shell of limonite.

The interest of the specimens lies in their unusual size, and their hollow core.

The Chinese love such freaks of nature and look upon them as objects of art. Hence the stands.

16. P. MITRA and J. K. GAN.

(1) *Kanam Mandible.*

Cast of the fragment of mandible discovered by Dr. L. S. B. Leakey in Kenya (East Africa) in 1931. Its age is considered to be the lower Pleistocene. In the opinion of Dr. Leakey this mandible represents a new species of *Homo*, which he has named *Homo Kanamensis*. It approaches *Homo Sapiens* so closely that it is properly justified in regarding it as a true ancestor.

(2) *Casts of the Fragments and endocranial cast of Kanjera Skull No. 1 and Skull No. 3.*

Like No. (1), these remains were also unearthed by Dr. Leakey in Kenya in 1931. Age: Middle Pleistocene. These skulls are regarded as 'primitive generalised examples of true *Homo Sapiens*'.

(3) *Cast of a portion of Femur.*

It was discovered in association with Kanjera Skull No. 3. It lends further support to the opinion already held that Kanjera peoples are true *Homo Sapiens*.

(4) *Cast of the mandible of Propliopithecus haeckeli.*

This mandible was discovered in 1910 by Schlosser in the Oligocene deposits at Fayum in N. Egypt. It is considered to be very closely related to the Gibbons.

(5) *Cast of the Femur of Paidopithecus rhenanus Pohlig.*

It was discovered at Eppelsheim. Age: upper Miocene. It bears affinity, according to Seme, to Gibbons, according to others to *Dryopithecus*.

17. J. N. MUKHERJEE.

Colloidal preparation including clay with beautiful colours.

Brownian movement and microcataphoresis. Microphotographs of emulsions. Measurement of hydrogen ion concentration with indicators, etc. Active charcoal.

18. BARON OW-WACHENDORF, MINISTER PLENIPOTENTIARY AND CONSUL GENERAL FOR GERMANY, CALCUTTA.

Roman and Indian Antiquities.(1) *Epona, Gallo-Roman goddess of horsebreeding. II Cent. A.D. Luxemburg sandstone. Found at Dalheim, Grand Duchy of Luxemburg. Formerly in the collection of Dr. Kayser, who bequeathed it to the present owner.*

This deity was worshipped on both banks of the middle and upper Moselle as well as in the Ardennes. The figure is one of the finest and most typical of Gallo-Roman art. Casts taken from this original are exhibited in the museums of Cologne, Treves, and Bonn (Described in the publications of Prof. Krueger).

- (2) *Roman Head. II-III Cent. A.D. Found in the Crimea, formerly in the collection of Prince Woronzeff, sold in 1929 by the Soviets to the present owner.*

The remarkably well preserved head was obviously joined on to a bust of the same period, but belonging to another figure.

- (3) *Navagraha. Bihar, IX-X Century. The frieze shows Surya, Chandra, Mangala, Budha, Brihaspati, Shukra, Shani, Rahu and Ketu.*

A similar piece is in the Indian Museum, Calcutta.

- (4) *Stele, with central figure of the Buddha in the earth-witnessing attitude, surrounded by figures representing scenes from his life. Bihar, XI-XII Century.*

- (5-8) *Four bronze figures. Bihar, VIII-X Century.*

The inscribed green figure is almost identical with the famous Kurkihar bronzes in the Patna Museum. The small silver figure is of the greatest rarity. Only one other image of this date cast in silver is known (Stella Kraemersch, Pala and Sena Sculpture, Page 9).

- (9-12) *Four bronze figures of South Indian origin (Hyderabad, Madras, Bezwada), XV-XVII Century.*

- (13) *A bronze figure from Gaya, apparently of Chinese origin. Date uncertain.*

19. B. PRASHAD.

Habitat Group of Indian Storks.

During 1934 the first Habitat Group of Indian Storks as observed at Samhon in the Etawah District was installed in the Bird Gallery of the Indian Museum. The two labels exhibited consist of (i) a coloured photograph of the case giving the names of the birds, plants, and other accessories in the case; and (ii) a descriptive label of the case.

Attention is invited to the novel way of protecting the photograph and the painted label by mounting them under glass slabs.

20. S. SUNDAR RAO.

Photographs and maps of Filarial Bancrofti and Guinea-worm.

21. THE GENERAL SECRETARY.

- (1) *The Society's publications of 1934.*

- (a) *Bibliotheca Indica.*
- (b) *Catalogues.*
- (c) *Journal.*
- (d) *Proceedings, Indian Science Congress.*

(2) *Some acquisitions of interest to the Library during 1934.*

- (a) Presentations.
- (b) Purchases.

(3) *Some recent publications by Members of the Society.*

- (a) N. G. Majumdar : *Explorations in Sind*. Delhi, 1934.
- (b) St. Kramrisch : *Indian Sculpture*. Calcutta, 1933.
- (c) R. S. Wauchope . *Buddhist Cave Temples in India*. Calcutta, 1933.
- (d) S. C. Law : *Kālidāser Pākhī (in Bengali)*. Calcutta, 1934.
- (e) S. Lévi : *Sanskrit Texts from Bāli, Baroda*, 1933.
- (f) G. A. Grierson : *A Manual of the Kashmiri Language*, 2 Vols. Oxford, 1911.
- (g) A. C. Vidyabhusana . *Sarasvatī, Pt. I (in Bengali)*. Calcutta, 1933/34.

ANNUAL REPORT FOR 1934.

The Council of the Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1934.

1. Ordinary Members.

Gains and losses.—These were as follows during the year :—

<i>Gains.</i>			<i>Losses.</i>		
New elections	..	49	Elections carried over	..	8
			Applications withdrawn	..	1
			Elections lapsed	..	3
			Deaths	..	5
			Resignations	..	11
			Rule 38	..	8
			Rule 40	..	7
Total	..	49	Total	..	43

Initial total 436; net gain 6; final total 442.

Rule 38.—This Rule, dealing with members whose subscriptions are in arrears, was strictly applied and the names of 8 Members were consequently removed from the roll for this cause.

Membership List.—The customary detailed cross-check of the membership lists with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 112, leaving more than ever room for substantial expansion.

Life-members.—The total of our Life-members has increased by one and now stands at 57. One was lost by death; and two Ordinary Members compounded during the year.

Deaths.—This year the loss to the Society by death has been heavy. Amongst the distinguished and especially valued members lost to us, whose memory will be cherished, and for whose departure the Society is the poorer, the following may be mentioned :—

The Hon'ble Sir P. C. Mitter (Ordinary Member, 1924).
 Rai Bahadur S. R. Kashyap (Ordinary Fellow, 1933).
 Sir C. C. Ghose (Ordinary Member, 1924), a past President.
 Kumar Manmatha Nath Mitter (Ordinary Member, 1906).
 Dr. Ekendranath Ghosh (Life-member, 1918).

2. Associate Members.

During 1934 one Associate Member was lost by death :—

MM. Kamal Krishna Smrititirtha (1924).

The quinquennial period of membership of 4 terminated during the year, and of these, 3 were re-elected for a further period of 5 years.

The following new Associate Member was elected during the year :—

L. Bogdanov.

The present number stands at 6 ; statutory maximum 15.

3. Special Anniversary Honorary Members.

On the 15th January, 1934, the Society celebrated the 150th Anniversary of its foundation, and elected 12 Honorary Members, representing Science and Letters. They are :—

<i>Science.</i>	<i>Letters.</i>
Baron Ernest Rutherford of Nelson, O.M., England.	Sir John Marshall, Kt., London.
Professor Albert Einstein, U.S.A.	Dr. Rabindra Nath Tagore, Santi- niketan.
M. A. Lacroix, Paris.	Professor Taha Husain, Cairo.
Sir Sydney Burrard, K.C.S.I., F.R.S., England.	Professor Arthur Christensen, Denmark.
Dr. Henry Fairfield Osborn, Sc.D., LL.D., New York.	Dr. J. Van Kan, Batavia, Java.
Dr Sir Sven Hedin, Sweden.	H. R. H. Prince Damrong Rajanub- hab of Siam.

4. Institutional Members.

During the year the following institution was admitted to this class of membership :—

Bombay University Library, Bombay.

Their total number is 7.

5. Ordinary Fellows.

At the Annual Meeting held on the 5th February, 1934, the following Member was elected an Ordinary Fellow :—

D. N. Wadia.

We lost through death Prof. S. R. Kashyap, an Ordinary Fellow, 1933.

The names of the following two Ordinary Fellows, who had ceased to be members under Rule 40, at the end of 1934, have now been omitted from the list of Ordinary Fellows.

At the end of 1934 the number of Ordinary Fellows was 47 ; statutory maximum 50.

On the date prescribed by the regulations for the issue of nomination papers for the election of new Fellows there were no vacancies and consequently no election will take place in 1935.

6. Honorary Fellows.

During the year no scholars were newly elected Honorary Fellows, and none were lost by death or resignation.

Their number at the end of 1934 was 26; statutory maximum 30.

7. Obituary.

During the year the Society received to its great regret news of the death of the following distinguished relations :—

Le R. P. Henri de Pirey, Corresponding Member of the French School of the Far East, Hanoi.

Dr. Ernst Hartert, a recipient of the Joy Gobind Law Memorial Medal.

Rev. E. Blatter, S.J., a recipient of the Paul Johannes Bruhl Memorial Medal.

8. Condolences.

The Council expressed condolences to the relatives of the following distinguished personalities deceased during the year :—

The Hon'ble Sir P. C. Mitter, an Ordinary Member of the Society.

Sir C. C. Ghose, an ex-President and Council Member of the Society.

9. Council.

The Council met 13 times during the year. The attendance averaged 11 of the 20 component members.

The following resolutions of thanks were passed by the Council :—

To Members of the Anniversary Celebration Committees for their valuable labours.

To Mr. K. C. Mahindra for the exceedingly valuable work performed by him for the Society as its Treasurer.

To Sir David Ezra for the presentation of a copy of the Descriptive Catalogue of Hebrew and Samaritan Manuscripts in the Sassoon Library, London.

To the Educational Secretary, Bengal Government, for sanctioning the annual grant for the publication of the Sanskrit Manuscripts Catalogues.

To M. J. Delacour for his presentation to the Society of a copy of his work on 'The Birds of French Indo-China.'

To Sir Upendra Nath Brahmachari for a donation to meet a deficit in Sir William Jones Memorial Medal Fund.

To Dr. L. L. Fermor for arranging the General Lectures.

To Dr. S. L. Hora, Mr. J. B. Auden, Dr. Meghnad Saha, and Dr. M. R. Sahni, for delivering lectures to the Society.

To Dr. S. L. Hora for the progress made with the publication of the Journal.

To Dr. S. L. Hora for preparing a re-appropriation statement for the Society.

To Dr. S. L. Hora for the services rendered by him as Treasurer and for his careful preparation of the Budget estimates for 1935.

10. Office Bearers.

The changes in the Council during the year were as follows :—

Sir C. C. Ghose resigned his seat on the Council on the 30th April owing to ill-health.

The Hon'ble Sir B. L. Mitter was co-opted a Council Member on the 2nd July.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora, absent, from 25-5-34 to 18-6-34.

Absences other than those mentioned above were :—

Mr. Dikshit, absent from 1-3-34 to 1-11-34.

Mr. Fawcett, absent from 4-4-34 to the end of the year.

Dr. Fernor, absent from 7-3-34 to 1-4-34; from 15-4-34 to 1-8-34; and from 25-9-34 to 24-10-34.

Dr. Heron, absent from 25-3-34 to 20-4-34 and from 27-11-34 to the end of the year.

Dr. J. N. Mukherjee, absent from 24-3-34 to 10-4-34.

Sir David Ezra, absent from 12-4-34 to 1-11-34.

Col. Chopra, absent from 14-4-34 to 12-8-34.

Mr. Haq, absent from 1-5-34 to 1-7-34 and from 6-10-34 to 15-11-34.

Sir U. N. Brahmachari, absent from 1-6-34 to 1-7-34 and from 10-10-34 to 1-11-34.

Dr. Guha, absent from 15-7-34 to the end of the year.

Dr. Prasad, absent from 14-8-34 to 31-8-34.

Sir B. L. Mitter, absent from 1-9-34 to 1-11-34.

11. Committees of Council.

The standing Committees of Council during the year, namely, the Finance, Publication, and Library, met monthly, except in March.

The following special sub-committees were appointed during the year :—

Finance Re-organization sub-committee.

Library Re-organization sub-committee.

Publication Re-organization sub-committee.

General Re-organization sub-committee.

Sub-committee for the foundation of the National Institute of Sciences of India.

During the year it was resolved to revive the functions of the Publication Committee as an active body with its own Secretary in application of Regulations 4 and 5.

The various committees met several times and will partly place their final recommendation before the Council, or have partly already done so.

12. Finance Committee.

The Finance Committee continued during the year to meet on dates different from, and a few days prior to, those of the Council Meetings.

A Special Meeting to frame the budget for the next year was held in December.

13. Office.

Staff.—Changes in and additions to the office staff were as follows: The services of Mr. H. A. Brown, Stenographer since 1931, were dispensed with owing to his continued illness, with effect from 1-11-34. Babu A. K. Naskar was appointed temporarily in his place on 6-10-34, and left towards the close of the year. Mr. K. Krishnan was provisionally taken in his place as Stenographer on 6-12-34. Messrs. T. V. V. Nathan and N. Norman were engaged on 10-11-34 and 23-11-34 respectively on probation as general assistants.

Subordinate Staff.—In the subordinate staff the following change took place: The old Jemadar, who was an employee of the Society in several capacities since 1900, died during January, and the Senior Chaprassi, Raghunandan Tewari, was appointed in his place. In addition to this, there were the usual minor changes which do not call for comment.

Correspondence.—This year the number of outgoing letters was 1,524 and that of incoming letters 2,628.

Council Circulars.—The number of Council and Committee circulars issued during 1934 was 121.

Files.—During the year intermittent work was continued with regard to our files, old and new, but no real progress can be reported.

Stock-room.—Labelling, bundling, and registration of the contents of the stock-room were kept up-to-date during the year for new publications. The stock-books for new accessions and for sales were kept up.

Distribution.—No change was made in the mode of distribution of our publications and notices.

Address.—Printed address labels remained in use and the system of constant revision and addition which has been adopted enables us to keep the printed addresses up-to-date, month by month.

Card Register.—The card registers of the Society's membership and of that of the Indian Science Congress were kept up-to-date and checked at the close of the year.

Circulars and Forms.—The number of these printed during the year was 75. About Rs. 753 were expended under this head.

Office Furniture.—One table for the despatcher and four wall-shelves for the library were acquired as also a magic lantern screen and four door-curtains.

Office Manual.—This still remains a desideratum.

Arrangement.—No change was made in the present disposition of the rooms and their contents.

14. Rules and Regulations.

During the year no changes were made in the Rules of the Society. The Council framed Regulations for the award of the Calcutta Indian Science Congress Prize.

15. Indian Science Congress.

Twenty-first Session.—The Twenty-first Annual Meeting of the Indian Science Congress was held in Bombay, from January 2nd to January 8th, 1934, under the patronage of His Excellency the Right Honourable Michael Herbert Rudolf Knatchbull, Lord Brabourne, G.C.I.E., M.C., Chancellor of the Bombay University and Governor of Bombay.

President.—Dr. Meghnad Saha, D.Sc., F.R.S., F.A.S.B., University Professor of Physics, Allahabad, was President of the Congress.

Proceedings.—The *Proceedings* of the Congress were published in the second week of December. The publication contained 544 pages which was 24 pages of letterpress less than the year before. The number of abstracts sent in for reading to the Congress numbered this year 626 as against 705 last year.

Administration—During the latter months of the year the usual administrative work for the Congress in connection with the next Session (Twenty-second Congress) to be held in Calcutta was performed by the Society's office, which also attended to the general administration of the Congress when this was not in session. This year the burden of work thrown on the Society's office was exceptionally heavy.

Programme and Abstracts.—As in the previous years the programme of the meeting and the abstracts were sent, as far as was practicable, by post to all Members who had applied for membership before the date of their publication. This year this date was again late, the 19th December.

Finance.—The Congress finances remained separate from those of the Society.

General Secretaries.—The General Secretaries to the Congress were Dr. S. P. Agharkar and Mr. W. D. West.

16. Indian Museum.

The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt., who was re-appointed as such for a further period of three years.

17. Kamala Lectureship.

The Council's nominee to serve on the Selection Committee of the Kamala Lectureship, administered by the Calcutta

University, remained the same, Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

18. Deputations.

The Society received invitation to send representatives to various functions of the undermentioned body :—

International Congress of Anthropological and Ethnological Sciences.

The Council invited Dr. B. S. Guha, R. B. R. Chanda, and Rev. P. O. Bodding to represent the Society.

19. Honours.

Amongst the Honours conferred during the year several were bestowed on members of the Society. Dr. U. N. Brahmachari and Mr. A. Howard received the honour of Knighthood. Col. Chopra was made a C.I.E.; and Dr. J. Ph. Vogel an Honorary C.I.E. While the distinction of Officier de l'Instruction Publique was conferred on the General Secretary by the French Government.

20. Congratulations.

The Society sent its cordial congratulations to Lt.-Col. R. B. S. Sewell and Dr. L. L. Fermor on being elected Fellows of the Royal Society.

Congratulations were also sent to several of the above recipients of Civic Honours.

21. Visits.

An appreciable number of distinguished visitors came to the Society during the year. Amongst them were scholars from Sikkhim, England, France, Austria, Switzerland, Germany, Holland, Hungary, and the United States of America.

Mr. Ram Chandra, C.I.E., M.B.E., I.C.S., Joint Secretary, Department of Education, Health and Lands, Government of India, visited the Society in March.

22. Social Functions.

On the 15th January, in connection with the Society's 150th Anniversary Celebrations, a conversazione was held in the quadrangle of the Indian Museum at 5-30 p.m. Light refreshments were served to the members and invited guests and the function which was numerously attended was a great success.

On the same day at 8 p.m. there was a banquet in the Society's rooms. A select gathering was present at the banquet and the Chief Guest was H.E. The Rt. Hon'ble Sir John

Anderson, P.C., G.C.B., G.C.I.E., Patron of the Society. There were also numerous representatives from foreign and Indian Societies.

The President generously enabled the Society to maintain the traditional practice of providing light refreshments to the Members present before the Ordinary Monthly Meetings.

23. Elliott Prize for Scientific Research.

The annual prizes for 1933 and 1934 for research in Chemistry and Physics, respectively, will be announced in the Annual Meeting of 1935.

The prize for next year, 1935, will be for research in Geology and Biology (including Pathology and Physiology).

24. Barclay Memorial Medal.

The (biennial) award of the Barclay Memorial Medal for 1933 was announced in the Annual Meeting of 1934. The medal was bestowed on Dr. R. Row.

The next award will be made in 1936.

25. Sir William Jones Memorial Medal.

The next (biennial) award of the Sir William Jones Memorial Medal for 1934, for Asiatic Researches in Science, will be announced in the Annual Meeting of 1935.

26. Annandale Memorial Medal.

The (triennial) award, for important contributions to the study of Anthropology in Asia, was announced in the Annual Meeting of 1934. The medal was bestowed on Dr. Eugène Dubois.

The next award will be announced in the Annual Meeting in February, 1937.

27. Joy Gobind Law Memorial Medal.

The next (triennial) award of the medal for conspicuous important work on Zoology in Asia will be announced in the Annual Meeting in February, 1936.

28. Paul Johannes Brühl Memorial Medal.

The (triennial) award for important contributions to the study of Asiatic Botany will be announced in the Annual Meeting in February, 1935.

29. Calcutta Indian Science Congress Prize.

The first award of the prize will be announced in the Annual Meeting in February, 1935.

30. Society's Premises and Property.

A sum of Rs. 2,000 was set aside during the year to be credited to the Building Repairs Fund.

During the year some petty repairs to the Society's building were effected. There was a slight outbreak of fire in the Society's building on the 18th September on account of the fusing of the electric wires. The Council decided to have the whole wiring renewed.

The various desiderata and problems existing under the heading Premises and Property have been mentioned in the Annual Reports of the last few years and have to be kept in mind until realization.

31. Accommodation.

Old problems to be carried over as still needing attention are: the provision of a set of small work-rooms for various uses, and the shelving of the stock-rooms.

32. Artistic and Historical Possessions.

No notable accessions were added during the year to the artistic and historical possessions of the Society.

33. Presentations, Donations, and Legacies.

Except for the presentations to be mentioned under the next heading the Society received a further donation from Sir Upendra Nath Brahmachari, Kt., to meet a deficit for the year in Sir William Jones Memorial Medal Fund.

34. Library.

Permanent Library Endowment Fund.—The fund received no further donation during the year. The total invested capital remained (face value) Rs. 13,000, in 3½ per cent. Government paper. The accumulated interest will permit the purchase of one further paper to the face value of Rs. 1,000 during next year.

Accessions.—The accessions to the library during the year, exclusive of about 200 periodicals received through exchange or otherwise, numbered 218 volumes, out of which 131 were purchased and 87 were acquired by presentation.

The allocation for the purchase of books for the year was Rs. 2,000, but actually an amount of Rs. 1,982 was spent. For the new year the grant has been fixed at Rs. 2,000.

Binding.—During the year 514 units, including books, pamphlets, and periodicals, were bound at a cost of Rs. 613, out of a total budget allowance of Rs. 750 sanctioned for the purpose.

Catalogue.—The new Author Catalogue of printed books in European Languages was published during the year.

Shelving.—A new reference shelf was added during the year to keep the more important works of reference. Installation of special steel shelving for manuscripts and books in the western section remains to be effected, and provision has also to be made for further steel shelving for the current accessions of periodical literature. Our available shelving space for printed books is also rapidly coming to an end.

35. Finance.

(1) Appendix III contains the usual statements showing our accounts for 1934. No change has been made in the form of their presentation since the previous year. No new statement occurs.

(2) One statement, still carried over without change from the previous year pending final ascertainment of commitments, is :—

Statement No. 16, International Catalogue of Scientific Literature, London.

(3) The other statements are presented as in the previous year and do not call for special comment.

(4) The fund accounts again show their invested assets written down to the market values as at the end of the year, and the Investment Account, Statement No. 23, shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown in it.

(5) Statement No. 25 shows the Balance Sheet of the Society and the different funds administered by and through it.

(6) The funds belonging to, or administered by, the Society may be classified as follows :—

(a) General Fund.

(i) Permanent Reserve.

(ii) Working Balance.

(b) Specific Funds belonging to the Society.

(c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1933, was as follows :—

	Face Value.	Market Value.	Face Value.	Market Value.
	31st Dec., 1933.	31st Dec., 1933.	31st Dec., 1934.	31st Dec., 1934.
1. General Fund ..	3,02,000	2,56,600	2,99,100	2,93,300
(a) Permanent Reserve	2,49,200	2,11,700	2,51,100	2,46,700
(b) Working Balance ..	52,800	44,900	48,100	46,600
2. Specific Funds belonging to the Society ..	45,000	40,000	46,600	45,400
3. Funds administered by the Society ..	28,000	25,000	29,500	28,800
	<u>3,75,000</u>	<u>3,21,600</u>	<u>3,75,200</u>	<u>3,67,500</u>

(7) During the year Rs. 1,136 were received through admission fees. Two members compounded their subscriptions to a total of Rs. 600. One new Institutional member was admitted. The fee of Rs. 50 together with the above amounts, as well as a sum of Rs. 23-15 cash balance which was brought forward from 1933, under this head, in all aggregating to Rs. 1,809-15 was transferred to the Permanent Reserve in the usual manner, by conversion at the market rates as on 31st December, 1934, of Government $3\frac{1}{2}$ per cent. Paper to the face value of Rs. 1,800 belonging to the Temporary Reserve of the working balance, whilst a cash balance of Rs. 61-11 is being carried over to the ensuing year, for adjustment under this head.

(8) The Government of Bengal maintained the 20 per cent. cut in all grants made by them to the Society during the year.

The Society received the following grants from the above Government :—

For	Rs.	Statement.
Journals ..	1,600	1
O.P. Fund, No. 1 ..	6,600	2
O.P. Fund, No. 2 ..	2,400	3
Sanskrit MSS. Fund (for 1934-35) ..	2,880	4
Do. (for 1933-34) ..	2,560	4
	<u>16,040</u>	

(9) The income derived from advertising during the year amounted to Rs. 9,600.

(10) The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 21 and 22.

(11) Statement No. 19 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications, and contingent charges.

(12) The Government Securities shown in Statement No. 23, are held in safe custody by the Imperial Bank, Park Street Branch. During the year, there was a further appreciation of

the Securities amounting to Rs. 48,007-12, affecting to that extent the book assets of the Society.

(13) The budget estimates for 1934 and the actuals for the year were as follows :—

Estimates.		Receipts.		Expenditure.	
		Rs.		Rs.	
Ordinary	69,500	69,500	
Extraordinary	850	850	
TOTAL		..	<u>70,350</u>	<u>70,350</u>	
Actuals.					
Ordinary	70,676	63,636	
Extraordinary	1,754	1,754	
TOTAL		..	72,430	65,390	

The ordinary income was about Rs. 1,176 more than estimated.

On the expenditure side also about Rs. 5,864 was expended less than the estimate.

(14) The year's working shows an improvement in the net balance by Rs. 32,357 as compared to that of last year taking into account the appreciation of our investments.

(15) The budget estimates for probable expenditure has as usual been framed to meet demands under various heads based on vigorous activity in all departments of the Society's work and a further special allocation has been made to the heading Journal with a view to make good its arrears during the coming year.

The receipts have been conservatively estimated.

An appendix presents the accounts connected with the celebration of the 150th Anniversary of the Society.

BUDGET ESTIMATES FOR 1935.

Ordinary Receipts.

	1934 Estimate.	1934 Actuals.	Budget Estimate for 1935.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits {	10,000	10,013	10,000
	500	807	800
Advertising	9,600	9,600	9,600
Annual Grant	1,600	1,600	1,600
Miscellaneous	500	270	300
Members' Subscriptions	9,500	9,823	9,500
Publications, Sales and Subscriptions	4,500	5,263	5,000
Proportionate Share of Funds ..	7,000	7,000	7,000
Indian Science Congress Contribution	..	..	600

		1934 Estimate.	1934 Actuals.	Budget Estimate for 1935.
		Rs.	Rs.	Rs.
Appropriation from the Temporary Reserve Fund as—				
(1) For Journal and Pro.	13,500	17,000	17,000	..
(2) For Library Catalogue	1,500			
(3) For Jubilee Celebrations	2,000			
Rent .. ..	..	9,300	9,300	9,300
TOTAL ..	..	69,500	70,676	53,700

Ordinary Expenditure.

		Rs.	Rs.	Rs.
Salaries and Allowances .. ..	..	31,500	31,320	30,000
Commission .. ..	..	300	256	300
Stationery .. ..	..	600	409	500
Fan, Light and Telephone .. ..	..	00	798	800
Taxes .. ..	..	2,250	2,244	2,250
Postage .. ..	..	1,750	1,502	1,400
Freight .. ..	..	100	..	100
Contingencies .. ..	..	850	841	900
Petty Repairs .. ..	..	100	140	100
Insurance .. ..	..	500	500	500
Menials' Clothing .. ..	..	150	188	100
Office Furniture .. ..	..	400	373	450
Artistic Possessions .. ..	..	100	..	..
Building Repairs .. ..	..	2,000	2,000	2,000
Provident Fund Share .. ..	..	700	682	700
Audit Fee .. ..	..	250	250	250
Books, Library .. ..	..	2,000	1,982	2,000
Binding, Library .. ..	..	750	613	650
Journal and Memoirs .. ..	..	20,000	16,337	9,900
Printing, Circular .. ..	..	1,000	753	800
Library Catalogue .. ..	..	1,500	2,202	..
Jubilee Celebrations .. ..	..	2,000	..	..
Income Tax .. ..	..	..	246	..
TOTAL ..	..	69,500	63,636	53,700

Extraordinary Receipts.

		Rs.	Rs.	Rs.
By Fees				
by Admission Fees .. ..	..	500	1,104	650
by Compounding Fees .. ..	..	300	600	300
by Institutional Membership				
Registration Fees .. ..	..	50	50	50
TOTAL ..	..	850	1,754	1,000

Extraordinary Expenditure.

	1934 Estimate.	1934 Actuals.	Budget Estimate for 1935.
	Rs.	Rs.	Rs.
To Permanent Reserve			
by Admission Fees	500	1,104	650
by Compounding Fees	300	600	300
by Institutional Membership Registration Fees	50	50	50
TOTAL ..	850	1,754	1,000

36. Publications.

Journal.—Of the *Journal and Proceedings*, Vols. XXIX, and XXX for 1933 and 1934 respectively, six numbers constituting nearly two complete volumes were issued aggregating 878 pages and 32 plates. The title-pages and index for Vol. XXIX were also published.

Thanks to the energetic labours of Dr. S. L. Hora much progress was made with the wiping out of arrears in the publication of the *Journal* and the prospects are that in 1935 the publication will be brought entirely up-to-date.

The Council decided to split up the *Journal*, to begin with the volume for 1935, into two separate parts, for Science and Letters.

Indian Science Congress.—The *Proceedings* of the 21st Indian Science Congress, consisting of 544 pages, were published during the year.

Special publications.—During the year one volume (the seventh) of the Sanskrit MSS. Catalogue (*Kāvya*) was published and also the Author Catalogue of printed book in European Languages in the library of the Society; these are dealt with separately elsewhere in this report.

Sales.—A sum of Rs. 5,250 was realized, being Rs. 750 above the budget estimate.

Expenditure.—The expenditure on *Journal* and *Memoirs* was about Rs. 16,337.

Advance Proceedings and Notices.—The Council decided to commence the issue of a new periodical under the above title which explains itself. It is to be published in the interval between any two Monthly Meetings of the Society and to be distributed only to the Members. Three numbers have appeared during the year.

Year Book.—The Council decided to give the sub-title of *Year-book* to the *Proceedings* of the Society.

37. The Baptist Mission Press.

Under the capable superintendence of Mr. P. Knight the Baptist Mission Press continued to act as our chief printers

and again gave invaluable assistance and maintained closest co-operation.

38. Agencies.

Our European and Indian Agents remained the same throughout the year.

39. Exchange of Publications.

During the year, the following application for an exchange with the Society's publications was considered by the Council, with the decision as noted against it :—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Ostasiatiska Samlingarna, Stockholm.	<i>Bibliotheca Indica.</i>

40. Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of April and the recess month of October. The recorded average attendance was 16 members and 3 visitors. The maximum attendance was in December with 26 members and 4 visitors.

Two meetings of the Medical Section were held during the year.

41. Exhibits.

In the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned :—

- M. S. Mani : An interesting case of Cladode-formation in certain Plants due to the attack of gall-forming Organisms; and the 'wireless' acrials of gall-midges.
- Johan van Manon : An interesting and rare Artifact found in a Jungle in the Ho Country; and six China plates representing the three famous Buddhist Pilgrims.
- L. L. Fermor : Four specimens of Deccan Trap Basalts and Dolerites from the Chhindwara District, C.P.
- M. S. Krishnan : The Bahjoi Meteoric Iron; and The Khanpur Meteorite.
- S. L. Hora : Sun-shades of Fishes.
- Suniti Kumar Chatterji : Three small Bronzes from West Africa.
- Cyril S. Fox : A portable Electroscope for ascertaining the Radio-activity of spring Waters, natural Gases, and Minerals.
- K. N. Dikshit : Four Coins.
- D. N. Wadia : Specimens of fossiliferous Limestone of Eocene Age associated with volcanic Rocks at the Crest of the Great Himalaya Range, Burzil Valley, Kashmir.

42. Communications.

Apart from papers submitted both for reading and subsequent publication, a number of communications, not intended

for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications made during the year the following may be mentioned :—

Baini Prashad: Harappa Animal Remains.

S. L. Hora: Fish Slime and Precipitation of suspended Mud in Water.

J. N. Mukherjee: Fish Slime and Precipitation of suspended Mud in Water.

S. P. Roy Choudhury: A note on the precipitating Action of Slime Water obtained from Bora Fish.

43. General Lectures.

Four General Lectures were held during the year before fairly numerous audiences of members and invited guests. They were as follows :—

S. L. Hora: Trade in Live Fish (Jiol Machh) in Calcutta. 31st August.

J. B. Auden: The North Bihar Earthquake of the 15th January, 1934. 7th September.

Meghnad Saha: The fundamental Constituents of Matter. 15th September.

M. R. Sahni: The Shan Hinterland: the Country and its People. 21st September.

44. Philology.

Five papers were read during the year to be published later.

Twelve papers read in the previous years were published during the year.

Four papers were read and also published during the year.

45. Natural History : Biology.

Four papers read in the previous years were published during the year.

Three new papers were read and published during the year.

One paper was read during the year to be published later.

46. Natural History : Physical Science.

Two papers were read and published during the year.

One paper was read during the year to be published later.

47. Anthropology.

Five papers read in the previous years were published during the year.

Six new papers were read and published during the year.

One paper was read during the year to be published later.

48. Medical Section.

During the year two meetings of the Medical Section were held, as detailed below :—

- September. Speaker : Lt.-Col. R. Knowles.
 Subject : Mosquito Density and Mosquito-borne Diseases in Calcutta City; and Nuclear Division in Malaria Sporozoites.
- October. Speaker : Lt.-Col. R. N. Chopra.
 Subject : Blood Changes in Opium Addicts.
- Speaker : Lt.-Col. R. Knowles.
 Subject : Spirochæte in Guinea-pig.

The recorded attendance averaged 3 members and 30 visitors.

49. Bibliotheca Indica.

Works published.—No new work was published during the year.

Indian works continued.—The following works were continued during the year :—

Manusmṛti, with the commentary of Medhatithi, Sanskrit.
 Vaikhānasaśrautasūtram, text, Sanskrit.

Islamic works continued.—In the Islamic Series work was continued on four works, namely :—

1. 'Amal-i-Šālih, Persian.
2. Tabaqāt-i-Akbarī, Persian.
3. Kashafu'l-Hujub, Part II, Arabic.
4. Rubā'iyāt of Umar-i-Khayyām, Persian.

Careful husbanding, during a protracted period, of the financial resources at the Society's disposal for the issue of the series reduced the undesirable huge debit balance of late years to an insignificant amount at the end of the year.

50. Catalogue of Sanskrit Manuscripts.

Volume VII, on Kāvya, was finished and published during the year. It is a volume of 674 pages, containing descriptions of 859 numbers. Volume VIII, on Tantra, is well advanced. By the end of the year 112 pages of it were printed off and about 72 pages were in type.

The Government grant for the period was renewed late in the year and measures were taken to ensure regular further progress in future.

51. Arabic and Persian Manuscripts, Search and Catalogue.

The work in this department was steadily pursued.

Binding.—The binding and repairing of previously and newly acquired MSS. was continued and 48 MS. volumes were

bound during the year, making a total of 1,058 MSS. bound and repaired since the end of 1924.

Acquisitions.—During the year forty manuscripts were acquired by purchase. A total amount of Rs. 545 was spent on these new acquisitions.

Late in the year the 1,000th new MS., since regular purchase was resumed in 1924, was added to the collection.

Reference books.—The collection of Persian and Arabic MSS. catalogues was again added to and its completion continues an object of attention.

Catalogue.—Since 1931 the work on the Catalogue of Arabic Manuscripts has been in suspense. In August, the Council made arrangements with Shams-ul-Ulama Dr. M. Hidayat Hosain to continue the work.

52. Numismatics.

One Numismatic Supplement (for 1931-1933) was published during the year, aggregating 42 printed pages and 5 plates. The Supplement for 1934 is in type and will be published early in 1935.

53. Anniversary Celebrations.

On the 15th January the Society celebrated the 150th Anniversary of its foundation.

In the afternoon a *conversazione*, together with an exhibition, was arranged in the Indian Museum. In the evening a banquet was held in the Society's hall with His Excellency the Governor of Bengal, Patron of the Society, as the Chief Guest. Some 85 members and representatives of learned Societies attended. After the banquet a Special Anniversary Meeting was held in which the Patron and the President delivered speeches. The General Secretary then read congratulations received from His Excellency the Viceroy, the Mayor of Calcutta, Honorary Fellows, and the League of Nations. 28 representatives of learned Societies conveyed congratulatory messages, after which some 40 greetings received by letter and telegram were communicated.

It was further resolved to prepare a Memorial Volume describing the Society's activities during the last half century in continuation of the previously published Centenary Volume, and to call for a vote from the general body of members concerning the desirability to apply for receipt of a Royal Charter from His Majesty.

In memory of the occasion twelve Special Anniversary Honorary Members were elected

54. Royal Charter.

The Council decided to take a vote of the general body of Members of the Society on the question of the desirability to apply for the receipt of a Royal Charter by the Society. The vote was overwhelmingly in favour of the proposal. Subsequently it was found that there is a technical difference between 'incorporation by Royal Charter', to be considered by His Majesty's Privy Council, and the bestowal by His Majesty of the title 'Royal' on the Society. As it was the latter distinction that was intended, the matter will be dealt with accordingly during the current year.

55. National Institute of Sciences of India.

The Indian Science Congress constituted a Committee to consider the creation of a National Institute of Sciences of India. The Society placed its rooms at the disposal of the Committee for its meetings and was itself represented on it. The Committee terminated its labours during the year and early in 1935 the Institute was duly founded. The Society decided to offer hospitality for its office to the new Institute in its early career.

[APPENDIX I]

Membership Statistics.

(As calculated for December 31st, for 30 years.)

YEAR.	ORDINARY.							EXTRA-ORDINARY.					FELLOWS.			
	PAYING.				NON-PAYING.			Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.	Total.	Grand Total Membership.	Honorary.	Ordinary.
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.									
1905 ..	144	133	12	288	48	20	68	356	4	13	..	..	17	373	29	..
1906 ..	173	147	15	335	52	20	72	407	4	12	..	..	16	423	30	..
1907 ..	174	175	20	369	31	20	51	420	4	12	..	..	16	436	28	..
1908 ..	181	193	17	391	38	19	57	448	4	13	..	..	17	465	30	..
1909 ..	183	217	13	413	40	20	60	473	4	14	..	..	18	491	28	..
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	28
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	426	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49
1934 ..	217	113	30	359	26	57	83	442	..	6	7	12	25	467	26	47

[APPENDIX II]

List of Publications issued by the Asiatic Society of Bengal during 1934.

(a) Journal and Proceedings (New Series) :

			Price.		
			Rs. A. P.		
Vol. XXIX : No. 1 (35 units)	..	..	13	2	0
Vol. XXIX : No. 2 (12 .. )	..	..	4	8	0
Vol. XXIX : No. 3 (8 .. )	..	..	3	0	0
Vol. XXIX : No. 4 (10 .. )	..	..	3	12	0
Vol. XXX : No. 1 (18 .. )	..	..	6	12	0
Vol. XXX : No. 2 (9 .. )	..	..	3	6	0

Title pages and Index for Vol. XXIX. (Free to Members and Subscribers on application.)

(b) Miscellaneous :

Proceedings, Twenty-first Indian Science Congress ..	12	12	0
Descriptive Catalogue of the Sanskrit MSS. in the collection of the Asiatic Society of Bengal, Vol. 7.			
Kāvya	10	0	0
Author Catalogue of Printed Books in European Languages in the Library of the Asiatic Society of Bengal	10	0	0

Abstract Statement
of
Receipts and Disbursements
of the
Asiatic Society of Bengal
for
the Year 1934

STATEMENT No. 1.

1934.

General

Income and Expenditure Account

		Rs.	As.	P.	Rs.	As.	P.
TO ESTABLISHMENT.							
Salaries and Allowances	..	31,319	13	0			
Commission	..	256	6	3			
					31,576	3	3
GENERAL EXPENDITURE.							
Stationery ..	..	409	4	0			
Fans and Light	..	509	3	6			
Telephone ..	..	289	2	3			
Taxes ..	..	2,244	7	0			
Postage ..	..	1,502	8	0			
Contingencies	..	841	5	9			
Printing Circulars, etc.	..	753	7	0			
Audit Fee ..	..	250	0	0			
Petty Repairs	..	139	14	0			
Insurance ..	..	500	0	0			
Menials' Clothing	..	188	4	0			
Furniture ..	..	373	0	0			
					8,000	7	6
LIBRARY AND COLLECTIONS.							
Books ..	..	1,981	14	8			
Binding ..	..	613	0	0			
					2,594	14	8
PUBLICATIONS.							
Journal and Proceedings and Memoirs		16,337	1	9			
Library Catalogue	..	2,201	14	0			
					18,538	15	9
CONTRIBUTIONS TO FUNDS.							
Provident Fund Contribution for 1934		....			682	5	0
Building Repair Fund Account	..	....			2,000	0	0
INCOME TAX ..	..	....			246	5	0
JUBILEE CELEBRATIONS ..	..	....			3,465	14	3
SUNDRY ADJUSTMENTS.							
Bad Debts written-off ..	..	....			847	4	0
Balance as per Balance Sheet	..	....			2,76,691	3	0
TOTAL.	..				3,44,643	8	5

STATEMENT No. 1.

Fund.

1934.

for year to 31st December, 1934.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			2,44,334	14	11

CASH RECEIPTS.

Interest on Investments	..	10,013	8	0			
Advertising	..	9,600	0	0			
Interest on Fixed Deposits	..	807	15	9			
Miscellaneous	..	270	10	6			
Government Allowance	..	1,600	0	0			
Donations	..	1,726	0	0			
Rent	..	9,300	0	0			
					33,318	2	3

PERSONAL ACCOUNTS.

Members' Subscriptions	..	10,798	0	0			
Compounding Subscriptions	..	600	0	0			
Admission Fees	..	1,136	0	0			
Institutional Membership Fees	..	50	0	0			
Miscellaneous	..	11	1	0			
					12,595	1	0

TRANSFERS FROM FUNDS.

Proportionate Share in General Expenditure	..	7,000	0	0			
Publication Fund for Publications	..	4,230	2	3			
					11,230	2	3
Appreciation of Govt. Securities revalued on 31-12-34	..	....			43,165	4	0

TOTAL .. 3,44,643 8 5

STATEMENT No. 2.

1934.

Oriental Publication

From a monthly grant made by the Government of Bengal for the publi-
(Rs. 500), and for the publication of Sanskrit
(Less 20% from the

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account			3,802	14	1
Printing			172	0	0
Proportionate Share in General						
Expenditure			2,500	0	0
Balance as per Balance Sheet			125	1	11
TOTAL ..				6,600	0	0

STATEMENT No. 3.

1934.

Oriental Publication

From a monthly grant made by the Government of Bengal of
Historical
(Less 20% from the

	Rs.	As.	P.
To Balance from last Account . .	2,300	6	4
Editing	600	0	0
TOTAL ..	2,900	6	4

STATEMENT No. 4.

1934.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal
by the Society; and Rs. 3,600 from the
(Less 20% from the

	Rs.	As.	P.	Rs.	As.	P.
To Pension	120	0	0			
Printing . . .	685	13	0			
Proportionate Share in General				805	13	0
Expenditure .. ..	...			2,000	0	0
Balance as per Balance Sheet ..	...			16,694	1	3
TOTAL ..				19,499	14	3

STATEMENT No. 2.

Fund. No. 1, in Account with A.S.B.

1934.

cation of Oriental Works and Works of Instruction in Eastern Languages
Works hitherto unpublished (Rs. 250).
1st of April, 1932.)

		Rs.	As.	P.		Rs.	As.	P.
By Annual Grant	..			....		6,600	0	0
								"
TOTAL	..					6,600	0	0

STATEMENT No. 3.

Fund. No. 2. in Account with A.S.B.

1934.

Rs. 250 for the publication of Arabic and Persian Works of Interest.
(1st of April, 1932.)

			Rs.	As.	P.
By Annual Grant for 1934-35	..	..	2,400	0	0
Balance as per Balance Sheet	..	..	500	6	4
TOTAL	..	..	2,900	6	4

STATEMENT No. 4.

Account, in Account with A.S.B.

1934.

for the publication of the Catalogue of Sanskrit Manuscripts acquired same Government for Research Work.
(1st of April, 1932.)

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account ..	....			14,059	14	3
Government Allowance for Research Work, 1934-35 ..	2,880	0	0			
Government Allowance for Cataloguing ..	2,560	0	0			
				<hr/>	<hr/>	<hr/>
				5,440	0	0
TOTAL ..				<hr/>	<hr/>	<hr/>
				19,499	14	3

STATEMENT No. 5.

1934.

Arabic and Persian Manuscripts

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society; for the purchase of further Manuscripts,
Manuscripts found in

	Rs.	As.	P.	Rs.	As.	P.
To Manuscripts Purchase	378	0	0			
Binding	95	0	0			
*Cataloguing	935	7	6			
	<hr/>			1,408	7	6
Proportionate Share in General Ex- penditure .. ..	....			2,500	0	0
Balance as per Balance Sheet .. ..	....			4,536	9	0
	<hr/>					
TOTAL				8,445	0	6
	<hr/>					

STATEMENT No. 6.

1934.

Barclay Memorial

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. ..	....			27	10	0
Balance as per Balance Sheet—						
Rs. 400, 3½% G.P.N., 1854-55	679	14	0			
" 100, " " 1900-01						
" 100, " " 1865						
" 100, " " 1854-55						
Less Deficit for the year	21	12	2			
	<hr/>			658	1	10
	<hr/>					
TOTAL				685	11	10
	<hr/>					

STATEMENT No. 7.

1934.

Servants' Pension Fund

Founded in 1876 as the Piddington Pension Fund

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 2,000, 3½% G.P.N., 1879	2,719	8	0			
" 500, " " 1854-55						
" 300, " " 1854-55						
Surplus for the year	119	5	9			
	<hr/>			2,838	13	9
	<hr/>					
TOTAL				2,838	13	9
	<hr/>					

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			2,312	5	7
Interest realized for the year			96	0	2
Appreciation, Investments revalued on 31-12-34			430	8	0
TOTAL ..				2,838	13	9

STATEMENT No. 8.

1934.

Annandale Memorial Fund

From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. ..	....			172	10	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P.N., 1842-43 } ..	3,885	0	0			
„ 1,000, „ „ 1854-55 } ..						
Surplus for the year	217	6	7	4,102	6	7
TOTAL ..				4,275	0	7

STATEMENT No. 9.

1934.

Permanent Library Endowment

From gifts received,

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 11,000, 3½% G.P.N., 1854-55 /						
„ 1,000, „ „ 1854-55 \	12,626	4	0			
„ 1,000, „ „ 1854-55 \						
Surplus for the year	726	7	3	13,352	11	3
TOTAL ..				12,352	11	3

STATEMENT No. 10.

1934.

Sir William Jones Memorial

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet--						
Rs. 1,500, 3½% G.P.N., 1854-55 } ..	2,913	12	0			
„ 1,500, „ „ 1900-01 } ..						
Surplus for the year	201	9	0	3,115	5	0
TOTAL ..				3,115	5	0

STATEMENT No. 8.*Account, in Account with A.S.B.***1934.**

started in 1926.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,520 10 1
Interest realized for the year	139 6 6
Appreciation, Investments revalued on 31-12-34	615 0 0
TOTAL	..		<u>4,275 0 7</u>

STATEMENT No. 9.*Fund Account, in Account with A.S.B.***1934.**

started in 1926.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	10,906 11 9
Interest realized for the year	447 3 6
Appreciation, Investments revalued on 31-12-34	1,998 12 0
TOTAL	..		<u>13,352 11 3</u>

STATEMENT No. 10.*Fund Account, in Account with A.S.B.***1934.**

1926, by Dr. U. N. Brahmachari.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	..	....	2,524 9 0
Interest realized for the year	..	104 8 0	
Donation .. ..	..	25 0 0	
			<u>129 8 0</u>
Appreciation, Investments revalued on 31-12-34 .. ..	..	....	461 4 0
TOTAL	..		<u>3,115 5 0</u>

STATEMENT No. 11.

1934.

Joy Gobind Law Memorial

From a donation for the purpose in 1929,

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet -						
Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,913	12	0			
Surplus for the year ..	160	3	0			
				3,073	15	0
TOTAL ..				3,073	15	0

STATEMENT No. 12.

1934.

*Building Fund*From a sum of Rs. 40,000 given by the Government of India
proceeds of a portion

	Rs.	As.	P.
To Balance as per Balance Sheet ..	6,321	9	6
TOTAL ..	6,321	9	6

STATEMENT, No. 13.

1934.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet -						
Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,913	12	0			
Surplus for the year ..	567	15	7			
				3,481	11	7
TOTAL ..				3,481	11	7

STATEMENT No. 11.

Fund Account, in Account with A.S.B.

1934.

by Dr. Satya Churn Law.

		Rs.	As.	P.		Rs.	As.	P.
By Balance from last Account				2,508	7	0
Interest realized for the year				104	4	0
Appreciation, Investments revalued on 31-12-34				461	4	0
TOTAL	..					3,073	15	0

STATEMENT No. 12.

Account, in Account with A.S.B.

1934.

towards the rebuilding of the Society's premises, and from the sale
of the Society's land.

						Rs.	As.	P.
By Balance from last Account	..	..				6,321	9	6
TOTAL	..					6,321	9	6

STATEMENT No. 13.

Fund Account, in Account with A.S.B.

1934.

						Rs.	As.	P.
By Balance from last Account	..	....				2,916	3	7
Interest realized for the year	..	....				104	4	0
Appreciation, Investments revalued on 31-12-34	.. ..	....				461	4	0
TOTAL	..					3,481	11	7

STATEMENT No. 14.

1934.

Dr. Bruhl Memorial

From a sum gifted for the purpose in 1929, by

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet						
Rs. 1,000, 3½% G.P.N., 1854-55 ..	971	4	0			
Less Deficit for the year ..	35	7	0			
	—	—	—	935	13	0
TOTAL	..			935	13	0

STATEMENT No. 15.

1934.

Building Repair

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	6,000	0	0
TOTAL	..	..	6,000	0	0

STATEMENT No. 16.

1934.

International Catalogue of Scien-

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	4,374	7	8
TOTAL	..	..	4,374	7	8

STATEMENT No. 14.

Fund Account, in Account with A.S.B.

1934.

the Brühl Farewell Committee.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	747 5 0
Interest realized for the year	34 12 0
Appreciation, Investments revalued on 31-12-34	153 12 0
			<hr/>
TOTAL	..		935 13 0

STATEMENT No. 15.

Fund Account, in Account with A.S.B.

1934.

			Rs. As. P.
By Balance from last Account	..	..	4,000 0 0
Transfer from the A.S.B. General Fund	..	..	2,000 0 0
			<hr/>
TOTAL	..	..	6,000 0 0

STATEMENT No. 16.

tific Literature, in Account with A.S.B.

1934.

			Rs. As. P.
By Balance from last Account	..	..	4,374 7 8
			<hr/>
TOTAL	..	..	4,374 7 8

STATEMENT No. 17.

1934.

Provident Fund Ac-

From contributions by the

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Receipt Stamp ..				0	1	0
Balance as per Balance Sheet—						
Rs. 5,000, 3% G.P.N., 1941 ..	5,059	6	0			
„ 6,000, 5-year Postal Cash Certificates ..	5,100	0	0			
Surplus for the year ..	3,897	13	10			
				14,057	3	10
TOTAL ..				14,057	4	10

STATEMENT No. 18.

1934.

Advances

			Rs.	As.	P.
To Balance from last Account	.	..	1,026	0	0
Advances	..	.	1,346	3	0
			-		
TOTAL	.		2,372	3	0

STATEMENT No. 17.*count, in Account with A.S.B.***1934.**

Society and its Staff.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account ..	....			12,217	10	8
Staff Contribution for the year ..	682	5	0			
Society's Contribution for the year ..	682	5	0			
Interest on Investments, etc. ..	140	11	3			
	<hr/>			1,505	5	3
Interest realized from Savings Bank, for 1934 .. ..	....			181	2	11
Appreciation, Investments revalued on 31-12-34 .. ..	....			153	2	0
TOTAL ..				14,057	4	10

STATEMENT No. 18.*Account, in Account with A.S.B.***1934.**

	Rs.	As.	P.
By Advances Returned	767	3	0
Balance as per Balance Sheet	1,605	0	0
TOTAL ..	2,372	3	0

STATEMENT No. 19.

1934.

Personal

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			4,738	6	9
Advances .. ..	....			4,779	4	9
Asiatic Society's Subscriptions, etc... ..	12,595	1	0			
Subscriptions to Journal and Pro- ceedings and from Book Sales, etc., from Publication Fund ..	4,230	2	3			
				16,825	3	3

TOTAL .. 26,342 14 9

STATEMENT No. 20.

1934.

Publication Fund

From sale proceeds

	Rs.	As.	P.	Rs.	As.	P.
To Books returned, etc.			48	3	0
Publications of the A.S.B.			4,230	2	3
Balance as per Balance Sheet			7,197	15	9

TOTAL .. 11,476 5 0

STATEMENT No. 19.

Account.

1934.

		Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts during the year	..	....			20,476	6	6
Bad Debts written off, A.S.B.	..	847	4	0			
Books returned, etc.	..	48	3	0			
					895	7	0
Balance	.. ..	....			4,971	1	3

Outstandings.	Amount due to Society.			Amount due by Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members	3,755	0	0	455	13	0
Subscribers	24	0	0	48	0	0
Bill Collector's Deposit				330	0	0
Miscellaneous	2,542	12	3	516	14	0
	6,321	12	3	1,350	11	0

TOTAL .. 26,342 14 9

STATEMENT No. 20.

Account, in Account with A.S.B.

1934.

of publications.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....			6,882	1	0
Cash Sales of Publications	..	....			364	1	9
Credit Sales of Publications, etc.	..	3,390	2	3			
Subscriptions to Journal and Proceedings, etc.	.. ..	840	0	0			
					4,230	2	3
TOTAL	..				11,476	5	0

STATEMENT No. 21.

1934.

(1) Investment Account

	Rs. As. P.	Rs. As. P.
To Balance from last Account ..	....	1,185 6 8
Deposits of Contributions during the year	1,364 10 0	
Deposits of Advances returned ..	766 3 0	
Deposits of accrued Interest ..	140 11 3	
	<hr/>	2,271 8 3
Interest realized for the year 1934 ..	....	181 2 11
TOTAL ..		3,638 1 10

STATEMENT No. 22.

1934.

(2) Investment Account

	Rs. As. P.
To Balance from last Account	29,649 13 6
Fixed Deposits	20,315 8 9
TOTAL ..	49,965 6 3

STATEMENT No. 21.*(Savings Bank Deposit, Imperial Bank of India).***1934.**

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal of Deposits for Staff Advances, etc. ..	1,346	3	0			
Cost of a Receipt Stamp ..	0	1	0			
	-	—	—	1,346	4	0
Balance as per Balance Sheet ..	....			2,291	13	10
TOTAL ..				3,638	1	10

STATEMENT No. 22.*(Fixed Deposit with Central Bank of India).***1934**

	Rs.	As.	P.
By Withdrawal of Deposits ..	19,965	6	3
Balance as per Balance Sheet ..	30,000	0	0
TOTAL ..	49,965	6	3

STATEMENT No. 23.

1934.

(3) *Investment*

			Rs.	As.	P.
To Balance from last Account ..	..	..	2,69,391	8	0
Appreciation, Investments revalued on 31-12-34 ..	..	..	48,007	12	0
		TOTAL ..	3,17,399	4	0

Face Value Rs.	FUNDS.	Rate of Rs %	31st December, 1931, Valuation.	31st December, 1933, Valuation.	Appreciation on 31st December, 1931.
			Rs. A P.	Rs. A P.	Rs. A P.
	ASIATIC SOCIETY OF BENGAL.				
	PERMANENT RESERVE.				
16,700	3 1/2% G. Loan No 155119, 1842-43	97 2/-			
1,00,000	3 1/2% G. Loan No. 216811, 1854-55	97 2/-			
53,700	3 1/2% G. Loan No. 216812, 1854-55	97 2/-			
5,000	3 1/2% G. Loan No. 028544, 1879	97 2/-			
1,000	3 1/2% G. Loan No. 028548, 1879	97 2/-			
44,300	3 1/2% G. Loan No. 337428, 1885	97 2/-			
25,000	3 1/2% G. Loan No. 288369, 1900-01	97 2/-			
4,800	3 1/2% G. Loan Part of No 288369, 1900-01	97 2/-			
500	3 1/2% G. Loan No. 063715, 1896-97	97 2/-			
	TEMPORARY RESERVE				
21,200	3 1/2% G. Loan Part of No. 288369, 1900-01	97 2/-			
11,400	4 1/2% G. Loan of 1955-60	116 9/-			
	PENSION FUND				
2,000	3 1/2% G. Loan No. 028546, 1879	97 2/-			
500	3 1/2% G. Loan No. 241036, 1854-55	97 2/-			
800	3 1/2% G. Loan No. 24702-74, 1854-55	97 2/-			
	BARCLAY MEMORIAL FUND.				
300	3 1/2% G. Loan No 170071, 1854-55	97 2/-			
100	3 1/2% G. Loan No. 220763, 1851-55	97 2/-			
100	3 1/2% G. Loan No. 304677, 1900-01	97 2/-			
11.0	3 1/2% G. Loan No. 354795, 1905	97 2/-			
100	3 1/2% G. Loan No. 248773, 1854-55	97 2/-			
	SIR WILLIAM JONES MEMORIAL FUND ACCOUNT.				
1,500	3 1/2% G. Loan No. 194719, 1854-55	97 2/-			
1,500	3 1/2% G. Loan Nos. 285907, 292707, 1900-01	97 2/-			
	ANNANDALE MEMORIAL FUND.				
3,000	3 1/2% G. Loan Nos. 195802, 195803, 195907, 1842-43	97 2/-			
1,000	3 1/2% G. Loan No. 222872, 1854-55	97 2/-			
	PERMANENT LIBRARY ENDOWMENT FUND.				
5,000	3 1/2% G. Loan No 230065, 1854-55	97 2/-			
2,000	3 1/2% G. Loan Nos. 231119, 230787, 1854-55	97 2/-			
1,000	3 1/2% G. Loan No 231699, 1854-55	97 2/-			
3,000	3 1/2% G. Loan No. 233359-55, 1854-55	97 2/-			
1,000	3 1/2% G. Loan No 222874, 1854-55	97 2/-			
1,000	3 1/2% G. Loan No. 242270, 1854-55	97 2/-			
	CALCUTTA SCIENCE CONGRESS PRIZE FUND.				
3,000	3 1/2% G. Loan No. 235951, 1854-55	97 2/-			
	DR BRÜHL MEMORIAL FUND.				
1,000	3 1/2% G. Loan No 235813, 1854-55	97 2/-			
	JOY GOBIND LAW MEMORIAL FUND				
1,000	3 1/2% G. Loan No. 213594, 1854-55	97 2/-			
1,000	3 1/2% G. Loan No. 218595, 1954-55	97 2/-			
500	3 1/2% G. Loan No. 218596, 1854-55	97 2/-			
500	3 1/2% G. Loan No. 218673, 1854-55	97 2/-			

STATEMENT No. 23.

Account

1934.

			Rs.	As.	P.
By Balance as per Balance Sheet	..	..	3,17,399	4	0
TOTAL	..	..	3,17,399	4	0

Face Value Rs.	FUNDS	Rate in Rs. %	31st December 1934 Valuation	31st December 1933 Valuation	Appreciation on 31st December, 1934	
			Rs.	A. P.	Rs.	A. P.
3,14,100	Brought forward	..	3,07,239	14 0	2,59,385	4 0
	PROVIDENT FUND ACCOUNT.					
	*5,000 3% G. Loan of 1941	.. 101 3 -	5,058	6 0	5,056	4 0
	6,000 Post Office 5-year Cash Certificates	85 -	5,100	0 0	4,950	0 0
			10,158	6 0	10,006	4 0
3,25,100			3,17,399	4 0	2,69,391	8 0
					48,007	12 0

* During the year $1\frac{1}{2}$ % G. Loan of 1934, was converted to 3% G. Loan of 1941

STATEMENT No. 24.

1934.

Cash

For the year to 31st

To	Rs. As. P.	Rs. As. P.
Balance from last Account .. ..	....	9,531 13 2
General Fund	33,318 2 3	
Oriental Publication Fund No. 1 Account	6,600 0 0	
Oriental Publication Fund No. 2 Account	2,400 0 0	
Sanskrit Manuscripts Fund Account ..	5,440 0 0	
Arabic and Persian Manuscripts Fund Account	5,000 0 0	
Barclay Memorial Fund Account	23 11 10	
Servants' Pension Fund Account	96 0 2	
Annandale Memorial Fund Account	139 6 6	
Permanent Library Endowment Fund Account	447 3 6	
Sir William Jones Memorial Fund Account	129 8 0	
Joy Gobind Law Memorial Fund Account	104 4 0	
Calcutta Science Congress Prize Fund Account	104 4 0	
Dr. Brühl Memorial Fund Account	34 12 0	
Provident Fund Account	1,505 5 3	
Advances Account	767 3 0	
Personal Account	20,476 6 6	
Publication Fund Account	364 1 9	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	1,346 3 0	
Fixed Deposit Account, Central Bank of India, Calcutta	19,965 6 3	
		98,261 14 0
TOTAL ..		1,07,793 11 2

STATEMENT No. 24.

Account.

1934.

December, 1934.

By	Rs. As. P.	Rs. As. P.
General Fund	65,105 1 5	
Oriental Publication Fund No. 1 Account	172 0 0	
Oriental Publication Fund No. 2 Account	600 0 0	
Sanskrit Manuscripts Fund Account ..	805 13 0	
Arabic and Persian Manuscripts Fund Account	1,408 7 6	
Barclay Memorial Fund Account ..	27 10 0	
Annandale Memorial Fund Account ..	172 10 0	
Advances Account	1,346 3 0	
Personal Account	4,779 4 9	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	2,271 8 3	
Fixed Deposit Account, Central Bank of India, Calcutta	20,315 8 9	
	<hr/>	97,004 2 8
Balance carried forward	10,789 8 6

TOTAL ..	<hr/>	1,07,793 11 2
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STATEMENT No. 25.

1934.

Balance

As at 31st

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund	2,76,691	3	0			
Oriental Publication Fund No. 1 Account	125	1	11			
Sanskrit Manuscripts Fund Account ..	16,694	1	3			
Arabic and Persian Manuscripts Fund Account	4,536	9	0			
Barclay Memorial Fund Account ..	658	1	10			
Servants' Pension Fund Account ..	2,838	13	9			
Annandale Memorial Fund Account ..	4,102	6	7			
Permanent Library Endowment Fund Account	13,352	11	3			
Sir William Jones Memorial Fund Account	3,115	5	0			
Joy Gobind Law Memorial Fund Account	3,073	15	0			
Building Fund Account	6,321	9	6			
Calcutta Science Congress Prize Fund Account	3,481	11	7			
Dr. Brühl Memorial Fund Account ..	935	13	0			
Building Repair Fund Account ..	6,000	0	0			
International Catalogue of Scientific Literature Account	4,374	7	8			
Provident Fund Account	14,057	3	10			
Publication Fund Account	7,197	15	9			
				3,67,557	1	11
TOTAL				3,67,557	1	11

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and set forth correctly the position of the Society as at 31st December, 1934

PRICE, WATERHOUSE, PEAT & Co.,

Calcutta,
31st January, 1935Auditors.
Chartered Accountants,
Registered Accountants.

STATEMENT No. 25.

Sheet.

1934.

December, 1934.

ASSETS.

	Rs.	As.	P.	Rs.	As.	P.
Oriental Publication Fund No. 2 Account	500	6	4			
Advances Account	1,605	0	0			
Personal Account	4,971	1	3			
				7,076	7	7
Investment Account	3,17,399	4	0			
Savings Bank Deposit Account, Imperial Bank of India	2,291	13	10			
Fixed Deposit Account, Central Bank of India, Ltd.	30,000	0	0			
				3,49,691	1	10
Cash Balances :—						
With the Imperial Bank of India, Park Street Branch, on current Account	10,621	10	6			
In hand	167	14	0			
				10,789	8	6
TOTAL ..				3,67,557	1	11

S. L. HORA,
Honorary Treasurer.

[APPENDIX IV]

Jubilee Celebration Account of the Asiatic Society of Bengal, 1933-1934.

		Rs.	As.	P.			Rs.	As.	P.
To Donations	..	3,623	0	0	By Cost of Banquet		1,600	0	0
Subscriptions to Banquet	..	1,005	0	0	Do. Conversa- zions	..	1,121	11	0
Miscellaneous	..	87	0	0	Miscellaneous	..	872	8	6
					Balance	..	1,120	12	6
TOTAL	..	4,715	0	0	TOTAL	..	4,715	0	0

S. L. HORA,
*Honorary Treasurer,
Asiatic Society of Bengal.*

[APPENDIX V.]

Abstract Proceedings Council, 1934.

(Rule 48 f.)

ANNUAL MEETING—

Annual Report for 1933. Approved.

No. 12.

29-1-34.

BUILDING —

Report outbreak of fire in the Society's building. Record.

No. 2.

24-9-34.

The question of repairs to the Society's building. Accept recommendations of the Finance Committee.

No. 3.

29-10-34.

Finance Committee No. 4 of 29-10-34. Repairs to the Building. Recommendation: For electric wiring ask for a report and estimates from Messrs. Balmer Lawrie & Co., and for general repairs ask for a report and estimates from Messrs. Martin & Co.

Repairs to the wiring may be undertaken at once after comparison of estimates of Messrs. General Electric Co. with those of Messrs. Balmer Lawrie & Co. Accepted by Council.

No. 6.

29-10-34

COMMITTEES—

Appointment of Committees of Council for the year.—

(a) Finance Committee :

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Dr. A. M. Heron.	
Dr. J. N. Mukherjee	

(b) Library Committee :

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

(c) Publication Committee :

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	

Biological Secretary	} <i>Ex-officio.</i>
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

(d) *Re-Organization Committee :*

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Dr. U. N. Brahmachari.	
Dr. A. M. Heron.	
Dr. J. N. Mukherjee.	
Dr. Baini Prasad.	

Terms of reference: To investigate the financial position of the Society and to make such recommendations to Council as may seem appropriate as a result. To report to March Council.

No. 1. (Special Council.)

13-2-34.

Appointment of Sub Committees of the Re-Organization Committee.

On a proposal by Dr. Fermor: Resolved that the following Sub-Committees be constituted under the points of reference indicated against each of them:—

(a) *Library Sub-Committee :*

Dr. A. M. Heron (Chairman).
Dr. J. N. Mukherjee.
Mr. Johan van Manen.

(b) *Publication Sub-Committee :*

Dr. Baini Prashad (Chairman).
Dr. S. L. Hora.
Mr. Johan van Manen.

To report on the Society's publications in the first instance the Journal and Memoirs, if expedient by an interim report.

(c) *Finance and General Sub-Committee :*

Dr. U. N. Brahmachari (Chairman).
Dr. A. M. Heron.
Dr. S. L. Hora.
Mr. Johan van Manen.

To report on the financial position of the Society in its various aspects, as well as on any other subjects not included in the scope of the enquiries of the two other Sub-Committees, but including questions of staff.

On a proposal by Dr. Brahmachari: Resolved that Mr. Johan van Manen do act as Secretary of the Committee and Sub-Committees.

Further resolved: That the Members of the Committee be invited to forward topics for discussion and suggestions to the General Secretary for circulation to the other Members prior to any meeting of the various Sub-Committees, and also that the minutes of any Sub-Committee be circulated for information to all the members of the Committee.

Re-Organization Committee.

15-2-34.

CONDOLENCES—

Letter of condolence to the relatives of the late Sir C. C. Ghose and reply thereto. Record.

No. 1.

24-9-34.

CONGRATULATIONS AND THANKS—

Recommendation Finance Committee No. 3 of 26-1-34. Report of the Honorary Treasurer regarding question of Income Tax of the Society's staff and of General Secretary. Resolved to refer to Council.

Also resolved to express the committee's great appreciation of Mr. K. C. Mahindra, the retiring Honorary Treasurer, for the exceedingly valuable work performed by him for the Society in his capacity as Treasurer together with a recommendation to the Council to endorse this appreciation. Accepted by Council.

No. 8.

29-1-34.

Council's thanks. The Council's thanks to be conveyed to the members of the Anniversary Celebration Committees.

No. 15.

29-1-34.

Presentation by Sir David Ezra of a copy of the Descriptive Catalogue of Hebrew and Samaritan Manuscripts in the Sassoon Library, London. Cordial thanks to the donor.

No. 2.

26-2-34.

Presentation to the Society by M. J. Delacour of a copy of his work on the 'Birds of French Indo-China'. The Council's thanks to be conveyed to the donor.

No. 2.

30-4-34.

Report receipt of news of the election of Dr. L. L. Fermor and Lt.-Col. R. B. S. Sewell to Fellowship of the Royal Society. The heartiest congratulations of the Council to be conveyed to the recipients.

No. 3.

30-4-34.

The Chairman expressed on behalf of the Council their hearty congratulations to Sir Upendra Nath Brahmachari on the occasion of the conferment upon him by His Majesty of the honour of Knighthood.

On a proposal of Dr. Bani Prashad it was resolved to arrange for a function in honour of Sir Upendra Nath in the Rooms of the Society, limited to Members, and to suit the convenience of the guest of honour.

No. 2.

30-7-34.

Donation from Sir U. N. Brahmachari to meet the deficit for the year in 'Sir William Jones Memorial Medal Fund'. Record with thanks to the donor.

No. 2.

27-8-34.

Publication Committee No. 2 of 26-11-34. Report by Dr. S. L. Hora concerning progress made with the publication of the Journal. Recommendation: Noted with thanks. Accepted by Council.

No. 6.

26-11-34.

Letter from the Honorary Treasurer regarding re-appropriation statement. Approved. The Council's thanks to be conveyed to Dr. Hora.

No. 3.

17-12-34.

Budget estimate for 1935 (Recommendations of the Special Finance Committee of 14-12-34). Adopt. The Council's thanks to be conveyed to Dr. Hora for the services rendered by him as Treasurer and for his careful preparation of the budget estimates.

No. 7.

17-12-34.

COUNCIL—

Finance Committee No. 4 of 27-4-34. Absence Honorary Treasurer from Calcutta during next month. Recommendation: General Secretary to officiate. Usual resolution to be passed. Accepted by Council.

No. 10.

30-4-34.

Special Council Meeting. A special Council Meeting to be held on Tuesday, the 13th February, 1934, to appoint the Committees of Council and Re-Organization Committee.

No. 14.

29-1-34.

Signatures signifying acceptance of election to Council by the Council Members. Record.

No. 1.

26-2-34.

Letter from Sir C. C. Ghose resigning his seat on the Council. Accept with regrets. Invite Sir B. L. Mitter to fill the vacancy.

No. 5.

30-4-34.

Absence of Honorary Treasurer from Calcutta. Resolved that the General Secretary (Mr. Johan van Manen) be authorized to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer (Dr. S. L. Hora) from Friday, the 25th May, 1934, until notification of the latter's return to Calcutta and resumption of office.

No. 16.

30-4-34.

Report acceptance seat on Council by the Hon'ble Sir B. L. Mitter. Record.

No. 7.

25-6-34.

The Chairman welcomed back to the Council the Hon'ble Sir B. L. Mitter and expressed on behalf of the Members their great pleasure and satisfaction at seeing him back in their midst after his long absence from Calcutta on important state service.

No. 1.

30-7-34.

General Meetings and Council Meetings during recess months, September and October. General Meetings and Council Meetings to be held as usual during the recess months.

No. 10.

27-8-34.

Fixing of dates for the December Committees and Council Meetings. Committees and Council on the 17th December; Finance Committee on the 14th December.

No. 2.

26-11-34.

Informal consideration composition of Council, 1935-36. After discussion, the following list of candidates for nomination to next year's Council was placed before the meeting for consideration :—

President	..	..	Dr. L. L. Fermor.
Vice-President	..	..	Sir David Ezra.
"	"	..	Sir U. N. Brahmachari.
"	"	..	Lt.-Col. R. Knowles.

Vice-President ..	..	The Hon'ble Sir B. L. Mitter.
General Secretary ..	..	Mr. Johan van Manen.
Treasurer ..	..	Dr. S. L. Hora.
Phil. Secretary ..	..	Dr. S. K. Chatterji.
Jt. Phil. Secretary ..	..	Dr. M. Hidayat Hosain.
Nat. Hist. Secretary (Biology)		Dr. Baini Prashad.
" " " (Phy. Sci.)		Dr. J. N. Mukherjee.
Anthropological Secretary ..		Rai Bahadur R. Chanda.
Medical Secretary ..		Lt.-Col. R. N. Chopra.
Library Secretary ..		Dr. A. M. Heron.
Member of Council ..		Mr. L. R. Fawcus.
" " " ..		Mr. Percy Brown.
" " " ..		The Hon'ble Mr. Justice J. Lort-Williams.
" " " ..		Mr. C. C. Calder.
" " " ..		Mr. N. G. Majumdar.

Resolved: That the General Secretary do print and circulate to the Members of the Council the list of the Council as at present constituted, together with the new list placed before the meeting, and provided with a blank column for additional names; and these lists be returned to the General Secretary within a week of date of issue; that a list be compiled of the candidates finally proposed and be placed before the next Council Meeting to be voted upon.

No. 8.

26-11-34.

Council nomination, 1935-36. The General Secretary reported that 16 Council Members had returned the list of candidates circulated duly signed and unanimously approved with one single additional suggestion.

Resolved: That the list of names placed before the Council in the November meeting be declared that of the Council's candidates for election to next year's Council and that it be ordered to be issued to the Resident Members as prescribed by Rule 44.

No. 12.

17-12-34.

EXCHANGE OF PUBLICATIONS—

Library Re-organization Sub-Committee No. 5 of 6-3-34. Recommended that the exchange list, especially with regard to Orientalistic Journals be extended. Council order: Postpone.

No. 13.

30-4-34.

FELLOWS—

Recommendations of the meeting of Resident Fellows. Accepted. Put up for election in the Annual Meeting: Mr. D. N. Wadia.

No. 7.

29-1-34.

FINANCE—

Recommendation Finance Committee No. 3 of 26-1-34. Report of the Honorary Treasurer regarding question of Income Tax of the Society's staff and of General Secretary. Resolved to refer to Council.

Resolved to express the Committee's great appreciation of Mr. K. C. Mahindra, the retiring Honorary Treasurer, for the exceedingly valuable work performed by him for the Society in his capacity as Treasurer together with a recommendation to the Council to endorse this appreciation. Accepted by Council.

No. 8.

29-1-34.

Finance Committee No. 2 of 23-2-34. Further report of the Honorary Treasurer regarding the question of Income Tax of the Society's Staff and of General Secretary, and the late Honorary Treasurer's notes. Recommendation: Pay amount Rs. 582-8-0 as further demanded by Income Tax Officer. Accept Mr. Mahindra's recommendations 1 and 2. Circulate papers to members of Finance Committee for further consideration of recommendations 3 and 4. Council order: Accept. Further resolved that the General Secretary's car allowance be fixed at Rs. 120 per mensem.

No. 6.

26-2-34.

Letter from the Government of Bengal, Department of Education, sanctioning the annual grant for the publication of the Sanskrit Manuscripts Catalogue. Statement to be supplied to the Government as demanded. The Council's thanks to be conveyed to the Education Secretary. Any doubtful description of the grant to be remedied.

No. 4.

30-4-34.

Finance Committee No. 3 (b) of 27-4-34. Auditors' suggestion to make changes in the mode of presentation of the Annual Statement of Accounts for the year 1933. Recommendation: The General Secretary to write to the Auditors to clarify the position, with an expression of willingness to consider suggestion for a change in the preparation of the accounts. Accepted by Council.

No. 10.

30-4-34.

Absence of Honorary Treasurer from Calcutta. Resolved that the General Secretary (Mr. Johan van Manen) be authorized to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer (Dr. S. L. Hora) from Friday, the 25th May, 1934, until notification of the latter's return to Calcutta and resumption of office.

No. 16.

30-4-34.

Recommendation Finance Committee No. 3 (a) of 23-5-34. Further report on the question of arrears of Income Tax paid by the Society for the Staff. Recommended: (i) That the arrangements be approved for the recovery of the money advanced by the Society in paying Income Tax on staff salaries for the 9 months of the current year. (1933-34); (ii) that the proposal be approved that the Society should bear one-half of the amount paid as the Income Tax on staff salaries for the two years preceding the current year; (iii) that the other half of the amount be recovered from the members of staff before the 31st December, 1934; (iv) that the arrangements be approved as suggested by the General Secretary whereby he will refund Income Tax paid by the Society on his behalf at the rate of Rs. 100 monthly from 31st May, 1934, and that the General Secretary should further attempt to regularize his position of not being a member of the Society's staff with the Income Tax Officer, after which the Finance Committee will consider the matter anew. Accepted by Council.

No. 2.

28-5-34.

Recommendation Finance Committee No. 3 of 25-7-34. Report by the Honorary Treasurer of a fixed deposit for Rs. 10,000, made during the month with the Central Bank of India, Ltd., Calcutta, for a period of three months. Approve. Accepted by Council.

No. 6.

30-7-34.

Recommendation Finance Committee No. 4 of 25-7-34. Advance subscription to World List of Scientific Periodicals. Remit reduced

advance subscription before the end of the month in anticipation of sanction. Accepted by Council.

No. 6.

30-7-34.

Recommendation Finance Committee No. 5 of 25-7-34. Statement by the Honorary Treasurer regarding income and expenditure during the first six months of the current year. Record. Accepted by Council.

No. 6.

30-7-34.

Proposal continuation of the Catalogue of Arabic Manuscripts. Accept proposal that Dr. Hidayat Hosain be placed in charge at a remuneration of Rs. 200 per mensem.

No. 3.

27-8-34.

Recommendation Finance Committee No. 3 of 19-9-34. Report by the Honorary Treasurer of the conversion of $4\frac{1}{2}\%$ Bonds 1934 for Rs. 5,000 (a/c Provident Fund) to the new 3% Bonds 1941. Approve. Approved by Council.

No. 5.

24-9-34.

Finance Committee No. 3 (a) of 23-11-34. Statement of receipts and expenditure of the Society for the ten months ending with the 31st October, 1934. Recommendation: Record. Place before the Council and draw attention to expenditure on new 'Advance Proceedings' and to headings under which savings have been effected or excess expenditure have been incurred. Recommended that the unexpended portion of the special grant for bringing up the Journal up to date be carried over as an extra grant in next year's budget. Council order: Accept.

Also resolved that when under any head any sum is spent in excess of the budgetary provision an attempt should be made to meet the excess by re-appropriation under sanction of the Council, and if that be not possible, by supplementary budget provision. That the Treasurer be authorized to exceed payment above budget allowance up to Rs. 100 in anticipation of sanction by Council. That the unexpended portion of the grant for publication be carried over to next year's budget.

No. 4.

26-11-34.

Finance Committee No. 3 (b) of 23-11-34. Authority to make payment before the end of the year of all bills. Recommendation: Recommended that the usual authority be given.

Council order: Accept. Also resolved that the Treasurer be authorized to exceed payment above budget allowance up to Rs. 100 in anticipation of sanction by Council.

No. 4.

26-11-34.

Letter from the Honorary Treasurer regarding re-appropriation statement. Approved. The Council's thanks to be conveyed to Dr. Hora.

No. 3.

17-12-34.

Report sanction of grant towards the publication of the Descriptive Catalogue of Sanskrit Manuscripts. Record.

No. 4.

17-12-34.

Finance Committee No. 2 of 14-12-34. Surplus under heading Jubilee Celebrations. Recommendation: That any surplus left over under the heading Anniversary Jubilee Celebrations be funded for

future expenditure connected with its specific purpose. Accepted by Council.

No. 6.

17-12-34.

Recommendation Finance Committee No. 2 (a) of 14-12-34. Collecting Sarkar's security deposit with the Society. No change. Accepted by Council.

No. 6.

17-12-34.

Recommendation Finance Committee No. 2 (b) of 14-12-34. Fixed Deposit made during the month with the Central Bank of India, Ltd., Calcutta, of Rs. 10,000 for a period of one year. Record. Accepted by Council.

No. 6.

17-12-34.

Finance Committee No. 2 (f) of 14-12-34. Bad Debts written off during the year—Rs. 892-13-0. Recommendation. Write off.

No. 6.

17-12-34.

Finance Committee No. 2 (h) of 14-12-34. Budget estimates for 1935. Recommendation: Adopt Special Committee's recommendations. Council Order: Accept with the exception of those regarding the budget estimates for next year to be discussed separately.

No. 6.

17-12-34.

Special Finance Committee No. 1 of 14-12-34. Consideration Budget estimates for 1935. The Budget estimates for 1935 were scrutinized and adopted as amended. Recommendation: That the revised estimates be adopted by Council. Council Order: Adopt. The Council's thanks to be conveyed to Dr. Hora for the services rendered by him as Treasurer and for his careful preparation of the Budget estimates.

No. 7.

17-12-34.

FURNITURE—

Finance Committee No. 3 of 24-8-34. Report order book cases for Works of Reference. Recommendation: Approve. Accepted by Council.

No. 6.

27-8-34.

GRANTS —

Letter from the Government of Bengal, Department of Education, sanctioning the annual grant for the publication of the Sanskrit Manuscript Catalogue. Statement to be supplied to the Government as demanded. The Council's thanks to be conveyed to the Education Secretary. Any doubtful description of the grant to be remedied.

No. 4.

30-4-34.

INCOME TAX—

Recommendation Finance Committee No. 3 of 26-1-34. Report of the Honorary Treasurer regarding question of Income Tax of the Society's staff and of General Secretary. Resolved to refer to Council.

Resolved to express the Committee's great appreciation of Mr. K. C. Mahindra, the retiring Honorary Treasurer, for the exceedingly valuable work performed by him for the Society in his capacity as Treasurer together with a recommendation to the Council to endorse this appreciation. Accepted by Council.

No. 8.

29-1-34.

Recommendations of the Finance Committee of 23-2-34. Accept. Further resolved that the General Secretary's car allowance be fixed at Rs. 120 per mensem.

No. 6.

26-2-34.

Finance Committee No. 2 of 23-2-34. Further report of the Honorary Treasurer regarding the question of Income Tax of the Society's Staff and of General Secretary, and the late Honorary Treasurer's notes. Recommendation: Pay amount Rs. 582-8-0 as further demanded by Income Tax Officer. Accept Mr. Mahindra's recommendations 1 and 2. Circulate papers to members of Finance Committee for further consideration of recommendations 3 and 4. Council order: Accept. Further resolved that the General Secretary's car allowance be fixed at Rs. 120 per mensem.

No. 6.

26-2-34.

Recommendation Finance Committee No. 3 (a) of 23-5-34. Further report on the question of arrears of Income Tax paid by the Society for the Staff. Recommended: (i) That the arrangements be approved for the recovery of the money advanced by the Society in paying income tax on staff salaries for the 9 months of the current year (1933-34); (ii) That the proposal be approved that the Society should bear one-half of the amount paid as the income tax on staff salaries for the two years preceding the current year; (iii) That the other half of the amount be recovered from the members of staff before the 31st December, 1934; (iv) That the arrangements be approved as suggested by the General Secretary whereby he will refund income tax paid by the Society on his behalf at the rate of Rs. 100 monthly from 31st May, 1934, and that the General Secretary should further attempt to regularize his position of not being a member of the Society's staff with the Income Tax Officer, after which the Finance Committee will consider the matter anew. Accepted by Council.

No. 2.

28-5-34.

INDIAN SCIENCE CONGRESS -

Letter of thanks from the Indian Science Congress Association. Record.

No. 2.

29-1-34.

Framing of Regulations for the award of 'The Indian Science Congress Calcutta Medal'. Accept Regulations as proposed with Dr. Fermor's emendation.

(1) The Medal shall be awarded at the Ordinary Annual Meeting of the Asiatic Society of Bengal, in February, in such years as the session of the Congress is held in Calcutta.

(2) The Medal shall be bestowed on a person who, in the opinion of the Council, has rendered conspicuously important services to the Indian Science Congress, or on a Member of the Indian Science Congress who, in the opinion of the Council, has made conspicuously important contributions to science.

(3) The Council shall, at a meeting preceding the Ordinary Monthly Meeting in November, appoint an Advisory Board consisting of not less than Five members.

(4) The Advisory Board shall be termed 'The Indian Science Congress Calcutta Medal Advisory Board'. This Board shall include the Biology, Physical Science, Anthropology, Medical and General Secretaries. The Board shall appoint a Chairman from amongst its members who shall have a casting vote (in addition to his own vote) in the event of the number of votes being equally divided.

(5) The General Secretary shall call a meeting of the Advisory Board on the first convenient date subsequent to the first Monday of December,

at the same time requesting members to bring with them to the meeting detailed statements of the work or attainments of such candidates as they may wish to propose. The General Secretary shall also place before the Board for consideration detailed statements of the work or attainments of any other candidate submitted by any Fellow of the Society. The Board shall make such arrangements as may be necessary for the selection of a name to be submitted to the Council at its December meeting.

(6) Notwithstanding anything determined in these Regulations, it shall be within the competence of the Board to abstain from the selection of any name to be submitted for the year and to report accordingly to the Council, in which case, provided the Council concurs, the award for the year shall lapse.

No. 1.

29-10-34.

Appointment of Advisory Board for the award of Indian Science Congress Calcutta Medal. The Board to consist of the five officials mentioned in the Rules.

No. 5 (c).

29-10-34.

Finance Committee No. 2 (i) of 14-12-34. Application from certain members of the staff in the matter of payment of Indian Science Congress bonus : of Chunnudutry for increase of pay ; from Assistant Pandit B. B. Mukherjee for increase of pay. Recommendation : Refer to Staff Committee. Accepted by Council.

No. 6.

17-12-34.

JUBILEE CELEBRATIONS—

Congratulations to, and reply thereto from, Sir George Grierson in connection with the 150th Anniversary Celebrations. Record.

No. 1.

29-1-34.

Recommendations of the Jubilee Celebration Committee. Approve. A further appeal for financial contributions to be issued. An amalgamated index of the Society's publications during its first 150 years to be prepared but not to be included in the Memorial Volume but in the Journal.

No. 12.

26-2-34.

Finance Committee No. 2 of 14-12-34. Surplus under heading Jubilee Celebrations. Recommendation : That any surplus left over under the heading Anniversary Jubilee Celebrations be funded for future expenditure connected with its specific purpose. Accepted by Council.

No. 6.

17-12-34.

KAMALA LECTURESHIP—

Representation of the Society on the Selection Committee, Kamala Lectureship, Calcutta University. Dr. Brahmachari to be Society's representative.

No. 7.

30-4-34.

LECTURES—

General Lectures. The General Secretary reported that the following lectures had been arranged :—

Friday, August 31st, 6-15 p.m.

Lecture : Dr. S. L. Hora, D.Sc., F.R.S.E., F.L.S., F.Z.S., F.A.S.B.

Subject : Trade in Live Fish (Jiol Machh) in Calcutta.

Friday, September 7th, 6-15 p.m.

Lecturer: J. B. Auden, Esq., M.A., F.G.S.

Subject: The North Bihar Earthquake of the 15th January, 1934.

Saturday, September 15th, 6-30 p.m.

Lecturer: Dr. Meghnad Saha, D.Sc., F.R.S., F.A.S.B.

Subject: The fundamental Constituents of Matter.

Friday, September 21st, 6-15 p.m.

Lecturer: Dr. M. R. Sahni, M.A., D.Sc.

Subject: The Shan Hinterland: the Country and its People.

Record with thanks to the President.

No. 11.

27-8-34.

Public Lectures. Letter of thanks to be issued to the Lecturers.

No. 9.

24-9-34.

LIBRARY—

Fixing price for the new Library Catalogue. Accept General Secretary's proposals.

No. 6.

30-4-34.

Recommendation, Library Committee No. 2 of 30-4-34. The question of subscribing to the Vedic publications of the Indian Research Institute, Calcutta. Decline. Accepted by Council.

No. 11.

30-4-34.

Library Re-Organization Sub-Committee No. 1 of 6-3-34. Recommended that in the opinion of the Sub-Committee, in the present financial position of the Society, the present annual expenditure on purchase of new publications of Rs. 2,000 is reasonable. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 3 of 6-3-34. Recommended that the bookbinding grant be closely scrutinized towards the end of the current financial year (which may be taken as a normal year, arrears having practically been made good) with a view to possible re-assessment. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 4 of 6-3-34. Recommended that attention be drawn from time to time to the Permanent Library Endowment Fund with a view to obtaining further contributions, and that in the meantime a budgetary allotment be annually made to supply the difference between annual interest and the amount necessary for annual purchase of a further paper of Rs. 1,000 until the investments have reached Rs. 30,000. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 1 of 12-3-34. Recommended that in the opinion of the Committee the running expenses of the Library administration, calculated at Rs. 4,300 per annum, seem too high. Council Order: Postpone.

No. 13.

30-4-34.

Price of Library Catalogue. General Secretary to be authorized to use his discretion in the supply of free copies to Institutions and Departments or in fixing special rates. A complimentary copy to be supplied to Dr. Baini Prashad.

No. 6.

28-5-34.

Recommendation Finance Committee No. 4 of 25-7-34. Advance subscription to World List of Scientific Periodicals. Remit reduced advance subscription before the end of the month in anticipation of sanction. Accepted by Council.

No. 6.

30-7-34.

LOAN OF BOOKS AND MSS.—

Report on Manuscripts lent out during March and April. Decline the loan requests from (1) Rajkumar Raghubir Singh of Sitamau, and (2) The Hon'ble Major Nawab Md. Akbar Khan, Khan of Hoti, N.W.F.P.

No. 9.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 6-3-34. Recommended that an administration fee be required for manuscripts out on loan: (a) in India after the completion of three months; (b) beyond India after the completion of six months. Council Order: Postpone.

No. 13.

30-4-34.

MANUSCRIPTS—

Report on the activities of the Society's Arabic and Persian Department. Record.

No. 1.

17-12-34.

MEMBERSHIP—

Lists of Members in arrears with subscriptions for four or more quarters. List No. 1, 19 names, and List No. 2, 16 names. Apply Rules.

No. 15.

30-4-34

Recommendation Finance Committee No. 5 of 24-8-34. Lists of members who are in arrears of subscriptions for four or more quarters. Apply Rules. Accepted by Council.

No. 6.

27-8-34.

Lists of members in arrears with subscriptions for four or more quarters. List No. 1, 25 names, List No. 2, 11 names, and List No. 3, 30 names. Apply Rules.

No. 12.

27-8-34.

Recommendation Finance Committee No. 3 of 29-10-34. Lists of members who are in arrears with subscriptions for four or more quarters. Apply Rules. Accepted by Council.

No. 6

29-10-34.

List of members in arrears with subscriptions for four or more quarters. List No. 1, 19 names, List No. 2, 12 names, and List No. 3, 16 names. Apply Rules.

No. 10.

29-10-34.

Removal of 14 names under Rule 38. Apply Rules, except in the case of Nos. 6, 9, 10, 11, 12 and 14.

No. 3.

26-11-34.

MEMORIALS -

Donation from Sir U. N. Brahmachari to meet the deficit for the year in 'Sir William Jones Memorial Medal Fund'. Record with thanks to the donor.

No. 2.

27-8-34.

Framing of Regulations for the award of 'The Indian Science Congress Calcutta Medal'. Accept Regulations as proposed with Dr. Fermor's emendation.

No. 1.

29-10-34.

Appointment of Advisory Board for the award of Sir William Jones Memorial Medal. The Board to consist of Messrs. Fermor, Chopra, Bains Prasad, Guha, and the General Secretary.

No. 5 (a).

29-10-34.

Appointment of Advisory Board for the award of Bruhl Memorial Medal. The Board to consist of Messrs. Fermor, Bains Prasad, Calder, Sir U. N. Brahmachari, and the General Secretary.

No. 5 (b).

29-10-34.

Appointment of Advisory Board for the award of Indian Science Congress Calcutta Medal. The Board to consist of the five officials mentioned in the Rules.

No. 5 (c).

29-10-34.

MEETINGS—

General Meetings and Council Meetings during recess months, September and October. General Meetings and Council Meetings to be held as usual during the recess months.

No. 10.

27-8-34.

Consideration of the programme of the Ordinary Monthly Meeting, January, 1935. No meeting in January. Routine items to be deferred to the next meeting.

No. 11.

17-12-34.

MISCELLANEOUS

Dr. Hora drew attention to a printed slip bearing his initials attempting to influence the voting in the Annual Meeting of the Society in February and which had been circulated without his knowledge.

After discussion on a proposal by Dr. Brahmachari, seconded by Dr. Bains Prasad, it was resolved *nem con* to record the entire confidence of the Council in the General Secretary and the Honorary Treasurer.

No. 2. (Special Council).

13-2-34.

French decoration to the General Secretary. Record.

No. 4.

30-7-34.

Notice of the decease of Le R. P. Pirey, a Corresponding Member of the French School of the Far East. Record and announce. Letter of condolence approved.

No. 1.

27-8-34.

Report outbreak of fire in the Society's building. Record.

No. 2.

24-9-34.

Article from the 10th Anniversary Number of the Calcutta Municipal Gazette. Record.

No. 2.

17-12-34.

NATIONAL INSTITUTE OF SCIENCES OF INDIA--

Proposed National Institute of Sciences of India. Dr. Fermor reported the present position in connection with the above matter.

Drs. A. M. Heron, J. N. Mukherjee, and B. Prashad to be requested to draw up a scheme and to place this together with the consequential proposals before the members of Council to consider and discuss in the next meeting of the Council.

No. 10.

24-9-34.

Proposed National Institute of Sciences of India. The President to be authorized to offer hospitality to the Institute for its office in the Society's building.

No. 12.

29-10-34.

Proposed National Institute of Sciences of India; scheme and proposals regarding the Asiatic Society of Bengal. Dr. Heron and Dr. Mukherjee reported that the Sub-Committee was not able to report, but would do so in next meeting.

No. 13.

29-10-34.

The President reported concerning the present position with regard to the proposed National Institute of Sciences of India.

No. 9.

26-11-34.

The President placed before the Council for consideration the report of the Sub-Committee appointed in the October Meeting. To be circulated to the Members of Council with a request for an expression of opinion to constitute a basis for discussion in next meeting.

No. 10.

26-11-34.

Report Sub-Committee on question arising in connection with the proposed National Institute of Sciences of India.

Journal to be split up into two parts, Letters and Science, each with separate paging beginning with the volume for 1935; the Publication Committee to function, with its own Secretary, as an active body in application of Regulations 4 and 5 regarding the submission of communications for publication. Correspondence with the press through the General Secretary; consideration of other matters to stand over to a subsequent meeting.

No. 10.

17-12-34.

PRESENTATIONS --

Presentation by Sir David Ezra of a copy of the Descriptive Catalogue of Hebrew and Samaritan Manuscripts in the Sassoon Library, London. Cordial thanks to the donor.

No. 2.

26-2-34.

Presentation to the Society by M. J. Delacour of a copy of his work on the 'Birds of French Indo-China'. The Council's thanks to be conveyed to the donor.

No. 2.

30-4-34.

PROVIDENT FUND—

Finance Committee No. 3 (c) of 27-4-34. Application for a loan of Rs. 1,000 from Maulvi Shah Moinuddin Ahmad. Recommendation: Grant loan to maximum amount allowable under Provident Fund Rules at interest of 1%, and balance from Society's funds on compassionate grounds at interest of 3%. Repayment of Society's Fund loan portion to start at once in instalments of Rs. 25, when repaid repayment of balance to continue. Accepted by Council.

No. 10.

30-4-34.

Finance Committee No. 3 of 22-6-34. Application from N. Gupta for a loan of Rs. 200 from the Society's Provident Fund. Recommen-

dition. Recommend that the loan be granted at an interest of 3%, with a refund of Rs. 10 monthly. Accepted by Council.

No. 2.

25-6-34.

Recommendation Finance Committee No. 4 of 24-8-34. Application for a loan of Rs. 150 from the Provident Fund by Babu S. K. Roy. Recommend that the loan be granted at an interest of 3%, with a refund of Rs. 10 monthly. Accepted by Council.

No. 6.

27-8-34.

Recommendation Finance Committee No. 3 of 19-9-34. Report by the Honorary Treasurer of the conversion of 4½% Bonds 1934 for Rs. 5,000 (a/c Provident Fund) to the new 3% Bonds 1941. Approve. Approved by Council.

No. 5.

24-9-34.

PUBLICATIONS—

Publication Re-Organization Sub-Committee No. 1 of 25-2-34. Recommended that Vol. XXIX of the Journal be issued on the old basis without any change pending final recommendations. Council Order: Accept. Further ordered that Journal Vol. XXIX be issued without any change.

No. 10.

26-2-34.

Publication Re-Organization Sub-Committee No. 2 of 25-2-34. Circulate the 'Instructions to Authors' drawn up by Dr. Annandale for contributors to the Journal, with a view to reconsideration and possible extension or modification. Council order: Accept. Further ordered that Journal Vol. XXIX be issued without any change.

No. 10.

26-2-34.

Recommendations of the Jubilee Celebration Committee. Approve. A further appeal for financial contributions to be issued. An amalgamated index of the Society's publications during its first 150 years to be prepared but not to be included in the memorial volume but in the Journal.

No. 12.

26-2-34.

Fixing price for the new Library Catalogue. Accept General Secretary's proposals.

No. 6.

30-4-34.

Price of Library Catalogue. General Secretary to be authorized to use his discretion in supply of free copies to Institutions and Departments or in fixing special rates. A complimentary copy to be supplied to Dr. Bains Prasad.

No. 6.

28-5-34.

Request from Prof. N. Mironov that the Society may publish his edition of the Saddharmapundarika (Central Asian Manuscripts) with accompanying matter. Read and accept for publication in whatever form may be found most practicable.

No. 8.

25-6-34.

Proposal continuation of the Catalogue of Arabic Manuscripts. Accept proposal that Dr. Hidayat Hosain be placed in charge at a remuneration of Rs. 200 per mensem.

No. 3.

27-8-34.

Any other matter submitted. The President raised the question of issuing a periodical bulletin to all members primarily intended to communicate to them an abstract of the Proceedings of the General Meetings before the date of a next General Meeting. Unanimously agreed to.

No. 13.

27-8-34.

The President raised the question of the title of the new periodical bulletin to contain advance reports of the meetings of the Society. The name of the new periodical to be 'Advance Proceedings and Notices'. The present Proceedings to have the added sub-title 'Year-Book for such and such a year'.

No. 11.

24-9-34.

Publication Committee No. 2 of 26-11-34. Report by Dr. Hora concerning progress made with the publication of the Journal. Recommendation: Noted with thanks. Accepted by Council.

No. 6.

26-11-34.

Report sanction of grant towards the publication of the Descriptive Catalogue of Sanskrit Manuscripts. Record.

No. 4.

17-12-34.

RE-ORGANIZATION COMMITTEE—

Recommendations of the Re-Organization Committee. Accept.

No. 9.

26-2-34.

Publication Re-Organization Sub-Committee No. 1 of 25-2-34. Recommended that Vol. XXIX of the Journal be issued on the old basis without any change pending final recommendations. Council Order: Accept. Further ordered that Journal Vol. XXIX be issued without any change.

No. 10.

26-2-34.

Publication Re-Organization Sub-Committee No. 2 of 25-2-34. Circulate the 'Instructions to Authors' drawn up by Dr. Annandale for contributors to the Journal, with a view to reconsideration and possible extension or modification. Council order: Accept. Further ordered that Journal Vol. XXIX be issued without any change.

No. 10.

26-2-34.

Library Re-Organization Sub-Committee No. 1 of 6-3-34. Recommended that in the opinion of the Sub-Committee, in the present financial position of the Society, the present annual expenditure on purchase of new publications of Rs. 2,000 is reasonable. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 6-3-34. Recommended that an administration fee be required for manuscripts out on loan (a) in India after the completion of three months, (b) beyond India after the completion of six months. Council Order: Postpone.

No. 13.

30-4-34.

Library Re-organization Sub-Committee No. 3 of 6-3-34. Recommended that the bookbinding grant be closely scrutinized towards the end of the current financial year (which may be taken as a normal year, arrears having practically been made good) with a view to possible re-assessment. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 4 of 6-3-34. Recommended that attention be drawn from time to time to the Permanent Library Endowment Fund with a view to obtaining further contributions, and that in the meantime a budgetary allotment be annually made to supply the difference between annual interest and the amount necessary for annual purchase of a further paper of Rs. 1,000 until the investments have reached Rs. 30,000. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 5 of 6-3-34. Recommended that the exchange list, especially with regard to Orientalistic Journal be extended. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 1 of 12-3-34. Recommended that in the opinion of the committee the running expenses of the Library administration, calculated at Rs. 4,300 per annum, seem too high. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 12-3-34. Resolved to recommend that a special scrutiny be invited for the two posts of: (a) Assistant Librarian; (b) Assistant Maulvi. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 1 of 19-3-34. Read a memorandum by Dr. Heron and Dr. Mukherjee. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 19-3-34. The General Secretary suggested that the following appointments should be considered necessary: (a) Two typists of which at least one should be a Stenographer; (b) at least four peons; (c) a general archives clerk. Council order: Postpone.

No. 13.

30-4-34.

REPRESENTATION--

Representation of the Society at the International Congress of Anthropological and Ethnological Science. Dr. Guha, Mr. Chanda, and Dr. Bodding to be the Society's representatives.

No. 8.

30-4-34.

REQUESTS—

Request for the use of the Society's Hall by the Bengal Aftercare Association for Juveniles. Decline.

No. 3.

26-2-34.

Letter from Dr. D. Rangacharlu requesting that the Society should take over the Sri Vaikhanasa Press and the stock of published literature. Decline.

No. 4.

26-2-34.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Approve.

No. 3.

30-7-34.

ROYAL CHARTER--

Consideration of the President's letter to the General Secretary, dated 11-5-34, suggesting: (a) that Society should apply for a Royal Charter; (b) the name under which the Royal Charter should be applied for. Unanimously resolved:

- (1) That the Council decides that an application for a Royal Charter should be made;
 - (2) that the name and style should be 'Royal Asiatic Society of India (Asiatic Society of Bengal)';
 - (3) that a voting paper be sent out to all members under Rules 64 and 78 asking for approval of each proposal separately;
 - (4) that a Committee consisting of Dr. Brahmachari, Dr. Heron, and the General Secretary be empowered to draft the voting paper;
 - (5) that the voting paper should be sent out before June 2nd in order to count the votes under Rule 65;
 - (6) that the above Sub-Committee may prepare drafts of any other documents to be issued in connection with the application;
 - (7) that an informal letter may be sent to the Government informing them of and explaining the above resolutions.
- No. 1 (Special Council). 25-5-34.

Consideration of Rule 64 (a). That in view of the prescription of Rule 64 (a), resolution No. 5, of the Special Council Meeting held on the 25th May, 1934, be modified so as to comply with the Rule by sending out the voting paper after the next Ordinary Monthly Meeting. That a statement be issued before the next Ordinary Monthly Meeting as required by the article. That the General Secretary report the general drift of the discussions under this point to the President.

No. 7. 28-5-34.

CHARTER: Resolved to formulate the vote to be sent out to members as follows: (a) That the Society do make an application for the receipt of a Royal Charter for the incorporation of the Society; (b) that the application do contain the request that the Charter may be granted under a name and style preserving the elements of the present name, together with an indication of the All-India character of the Society, as for instance a name of the type of the 'Asiatic Society of Bengal, Royal Asiatic Society of India' with such variations as the Authority granting the Charter may require; (c) that the Council be hereby authorized to make the necessary consequential alterations in the existing Rules of the Society if and when the Charter be granted; (d) Dr. Heron and the General Secretary to be authorized to draw up the voting paper and an accompanying circular.

No. 6. 25-6-34.

Matters relating to the application for a Royal Charter.

Considered the letter from the Private Secretary to His Excellency the Governor of Bengal, dated the 8th August, 1934, written on the latter's behalf.

It was decided to record as the unanimous opinion of the Council that the advice given in the letter should be accepted; that the real intention of the Society had been from the beginning to ask for Royal recognition as distinct from legal incorporation by Royal Charter; and that at this stage no other change of name should be asked for except the addition of the title 'Royal'.

Resolved: That a Sub-Committee be formed, consisting of the President, General Secretary, and Dr. Heron, to draft the next letters to be issued in connection with this matter.

No. 4.

27-8-34

RULES AND REGULATIONS—

Framing of Regulations for the award of 'The Indian Science Congress Calcutta Medal'. Accept Regulations as proposed with Dr. Fermor's emendation.

No. 1.

29-10-34.

STAFF—

Report death of the Jamadar of the Society. Record with regret.

No. 3.

29-1-34.

Petition from the late Jamadar's son for financial assistance, etc. Refer to the Re-Organization Committee. The senior chaprassi to be taken in his place on probation.

No. 4.

29-1-34.

Finance Committee No. 3 (c) of 27-4-34. Application for a loan of Rs. 1,000 from Maulvi Shah Moinuddin Ahmad. Recommendation: Grant loan to maximum amount allowable under Provident Fund Rules at interest of 1%, and balance from Society's funds on compassionate grounds at interest of 3%. Repayment of Society's Fund loan portion to start at once in instalments of Rs. 25, when repaid repayment of balance to continue. Accepted by Council.

No. 10.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 12-3-34. Resolved to recommend that a special scrutiny be invited for the two posts of: (a) Assistant Librarian; (b) Assistant Maulvi. Council order: Postpone.

No. 13.

30-4-34.

Library Re-Organization Sub-Committee No. 2 of 19-3-34. The General Secretary suggested that the following appointments should be considered necessary: (a) Two typists of which at least one should be a Stenographer; (b) at least four peons; (c) a general archives clerk. Council order: Postpone.

No. 13.

30-4-34.

Finance Committee No. 3 of 22-6-34. Application from N. Gupta for a loan of Rs. 200 from the Society's Provident Fund. Recommendation: Recommend that the loan be granted at an interest of 3%, with a refund of Rs. 10 monthly. Accepted by Council.

No. 2.

25-6-34.

Finance Committee No. 4 of 22-6-34. Application from the Cashier for three months sick leave. Recommendation: Grant if office arrangements can be made avoiding extra expenditure. Accepted by Council.

No. 2.

25-6-34.

Recommendation Finance Committee No. 4 of 24-8-34. Application for a loan of Rs. 150 from the Provident Fund by S. K. Roy. Recommendation: Recommend that the loan be granted at an interest of 3%, with a refund of Rs. 10 monthly. Accepted by Council.

No. 6.

27-8-34.

Report absence of staff owing to sickness. Record.

No. 3.

24-9-34.

Application from Mr. H. A. Brown. Issue notice before the end of the month that his services are dispensed with and tender one month's salary in lieu of notice.

No. 2.

29-10-34.

Appointment of a special man in the Library to dust the Sanskrit Manuscripts. The Staff Sub-Committee to consider.

No. 11.

29-10-34.

Staff. The Staff Sub-Committee to consider the present position arising out of the termination of service of the Stenotypist and to report as soon as convenient.

No. 14.

29-10-34.

Finance Committee No. 4 of 23-11-34. Resignation of Cashier. Recommendation: Accept from date convenient to Council after 1st February, 1935. Council order: Cashier's resignation accepted. B. M. Chakravarti to take his place. Question of salary and security deposit may be considered by the Staff Sub-Committee.

No. 4.

26-11-34.

Finance Committee No. 2 (g) of 14-12-34. Increment of salaries to staff. Recommendation: Refer to Staff Sub-Committee. Accepted by Council.

No. 6.

17-12-34.

Finance Committee No. 2 (i) of 14-12-34. Application from certain members of the staff in the matter of payment of Indian Science Congress bonus; of Chunnudity for increase of pay; from Assistant Pandit B. B. Mukherjee for increase of pay. Recommendation: Refer to Staff Sub-Committee. Accepted by Council.

No. 6.

12-12-34.

VISITS—

Report visit to the Society of Mr. Ramachandra, I.C.S., Joint Secretary, Department of Education, Health and Lands, Government of India. Record.

No. 1.

30-4-34.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Asiatic Society of Bengal,
On the 31st December, 1934.**

PATRONS OF THE ASIATIC SOCIETY OF BENGAL.

1931	..	.. H.E. the Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E., Viceroy and Governor- General of India.
1932	..	.. H.E. the Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.
1910-1916	..	.. Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O., I.S.O.
1917-1922	..	.. Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1921-1926	..	.. Earl of Reading, G.C.B., P.C., G.C.V.O., G.B.E.
1922-1927	..	.. Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	..	.. Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	..	.. Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1934.

Elections Annual Meeting.

President

L. L. Fermor, Esq., O.B.E., D.Sc. (London), A.R.S.M., F.G.S., M. Inst. M.M., F.A.S.B.

Vice-Presidents.

Sir R. N. Mookerjee, K.C.I.E., K.C.V.O., D.Sc., M.I.M.E., M.I.E. (Ind.), Hon. F.A.S.B.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Upendra Nath Brahmachari, Bahadur, M.A., M.D., Ph.D., F.S.M.F., F.A.S.B.

Lt.-Col. R. Knowles, B.A. (Cantab.), M.R.C.S., L.R.C.P., I.M.S., F.A.S.B.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E., F.A.S.B.

Treasurer :—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S., F.R.S.E., F.A.S.B.

Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit. (Lond.).

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlawi M. Hidayat Hosain, Khan Bahadur, Ph.D., F.A.S.B.

Natural History Secretaries. { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S., F.R.S.E., F.A.S.B.
Physical Science :—J. N. Mukherjee, Esq., D.Sc. (Lond.), F.C.S. (Lond.).

Anthropological Secretary : B. S. Guha, Esq., M.A., Ph.D. (Harvard).

Medical Secretary :—Lt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S., F.A.S.B.

Library Secretary :—A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E.

Other Members of Council.

The Hon'ble Mr. Justice C. C. Ghose, Kt., Barrister-at-Law.

M. Mahfuz-ul Haq, Esq., M.A.

L. R. Fawcus, Esq., B.A. (Cantab.), I.C.S.

Percy Brown, Esq., A.R.C.A.

K. N. Dikshit, Esq., M.A.

J. M. Bottomley, Esq. B.A. (Oxon), I.E.S.

APPOINTMENTS, TRANSFERS, ETC. DURING THE YEAR.

Sir C. C. Ghose resigned his seat on the Council on the 30th April owing to his ill-health.

The Hon'ble Sir B. L. Mitter was co-opted a Council Member on the 2nd July.

Mr. Johan van Manen, Acting Honorary Treasurer, vice Dr. S. L. Hora, absent, from 25-5-34 to 18-6-34.

Mr. Dikshit, absent from 1-3-34 to 1-11-34.

Mr. Fawcus, absent from 4-4-34 to the end of the year.

Dr. Fermor, absent from 7-3-34 to 1-4-34; from 15-4-34 to 1-8-34; and from 25-9-34 to 24-10-34.

Dr. Heron, absent from 25-3-34 to 20-4-34 and from 27-11-34 to the end of the year.

Dr. J. N. Mukherjee, absent from 24-3-34 to 10-4-34.

Sir David Ezra, absent from 12-4-34 to 1-11-34.

Col. Chopra, absent from 14-4-34 to 12-8-34.

Mr. Haq, absent from 1-5-34 to 1-7-34 and from 6-10-34 to 15-11-34.

Sir U. N. Brahmachari, absent from 1-6-34 to 1-7-34 and from 10-10-34 to 1-11-34.

Dr. Guha, absent from 15-7-34 to the end of the year.

Dr. Prashad, absent from 14-8-34 to 31-8-34.

Sir B. L. Mitter, absent from 1-9-34 to 1-11-34.

**OFFICERS AND MEMBERS OF COUNCIL OF
THE ASIATIC SOCIETY OF BENGAL
ELECTED FOR THE YEAR 1935.**

President.

L. L. Fermor, Esq., O.B.E., A.R.S.M., D.Sc. (London), F.G.S.,
M.Inst.M.M., F.R.S., F.A.S.B

Vice-Presidents.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D.,
Ph.D., F.S.M.F., F.A.S.B.

Lt.-Col. R. Knowles, B.A. (Cantab.), M.R.C.S., L.R.C.P.,
I.M.S., F.A.S.B.

The Hon'ble Sir B. L. Mitter, K.C.S.I., Kt., Barrister-at-Law.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E., F.A.S.B.
Treasurer :—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S., F.R.S.E.,
F.A.S.B.

Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit.
(Lond.).

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlawi
M. Hidayat Hosain, Khan Bahadur, Ph.D., F.A.S.B.

Natural History Secretaries. { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.A.S.B.
Physical Science :—J. N. Mukherjee, Esq.,
D.Sc. (Lond.) F.C.S. (Lond.).

Anthropological Secretary :—Rai Bahadur Ramaprasad Chanda,
B.A., F.A.S.B.

Medical Secretary :—Lt.-Col. R. N. Chopra, C.I.E., M.A., M.B.,
I.M.S., F.A.S.B.

Library Secretary :—A. M. Heron, Esq., D.Sc. (Edin.), F.G.S.,
F.R.G.S., F.R.S.E.

Other Members of Council.

L. R. Fawcus, Esq., B.A. (Cantab.), I.C.S.

Percy Brown, Esq., A.R.C.A., F.A.S.B.

The Hon'ble Mr. Justice J. Lort-Williams, K.C., Barrister-at-
Law.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A.

ORDINARY MEMBERS.

R=Resident. N=Non-Resident. F=Foreign. A=Absent. L=Life.

An Asterisk is prefixed to names of Ordinary Fellows of the Society.

Date of Election.		
5-4-22	R	Abdul Ali , ABUL FAIZ MUHAMMAD, M.A., M.R.A.S., F.R.S.L., F.R.G.S., F.R.H.S. 3, Turner Street, Calcutta.
7-3-27	R	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZIL (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Islamia College.</i> 19, Wellesley Square, Calcutta.
2-11-25	N	Acharya , PARAMANANDA, B.SC., <i>Archæological Scholar.</i> Mayurbhanj State, Baripada.
2-3-21	A	* Acton , HUGH WILLIAM, C.I.E., M.R.C.S., L.R.C.P., F.A.S.B., LT.-COL., I.M.S. School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta
2-3-21	R	Agharkar , SHANKAR PUBUSHOTTAM, M.A., PH.D., F.L.S., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University.</i> 35, Ballygunge Circular Road, Calcutta.
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan.</i> 2, Andrah, Kabul, Afghanistan.
7-4-30	N	Ahmad , SYED KHALIL, <i>Provincial Service (retired).</i> Zafar Manzil, Gaya.
6-6-17	N	Alyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A. <i>Late Director of Public Instruction, Travancore; Principal, Central Hindu College, Hindu University.</i> Benares.
6-12-26	N	* Alyangar , S KRISHNASWAMI, M.A., PH.D., M.R.A.S., F.R.HIST.S., F.A.S.B., <i>Rajasevasakta, Professor, University of Madras.</i> "Sripadam", 143, Brodies Road, Mylapore. Madras, S.
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti.</i> Hoti, N.-W.F.P.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. c/o The Royal Empire Society, Northumberland Avenue, London, W.C.
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant.</i> Trueloves, Ingates-tone, Essex, England.
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.) F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd.</i> Norton Building, Lalbazar, Calcutta.
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., I.E.S., <i>Professor of Zoology.</i> Royal Institute of Science, Mayo Road, Fort, Bombay.
3-3-14	L	* Bacot , J., F.A.S.B. Boulevard Saint-Antoine, 61, Versailles Seine-et-Oise, France.
1-11-26	R	Bagchi , PROBODH CHANDRA, M.A., DR.-ES-LETTRES (PARIS), <i>Member of the A.S. of Paris; Lecturer, Calcutta University.</i> 9, Rustomjee Street, Ballygunge, Calcutta.

Date of Election.		
1-3-26	R	Bagnall, JOHN FREDERICK , B.Sc., A.M.I.Mech.E., A.M.I.E.E., A.M.I.Struct.E., M.R.San.I., A.M.Inst.C.E., <i>Chartered Civil Engineer Consulting Engineer, Macneill & Co. 18/4, Ballygunge Circular Road, Calcutta.</i>
2-4-24	N	Bahl, K. N. , D.SC., D.PHIL., <i>Professor of Zoology, Lucknow University. Badshabagh, Lucknow.</i>
7-3-27	F	Bake, A. A. , <i>Doctorandus Or. Lit. P.O. Santiniketan. (c/o The Kern Institute, Leiden, Holland.)</i>
6-2-18	N	Banerjee, NARENDRA NATH , M.I.P.O.E.E., A.M.I.E., <i>Director of Telegraphs, Bombay Circle, Bombay.</i>
5-3-24	R	Banerjee, P. N. , M.A. (CANTAB.), A.M.I.E., F.C.U., <i>Civil Engineer. 12, Mission Row, Calcutta.</i>
1-11-26	N	Barhut, THAKUR KISHORESINGH JI , <i>State Historian of Patiala Government. History and Research Department, Patiala</i>
3-8-31	N	Barua, THE HON'BLE KANAK LAL, RAI BAHADUR , B.L., F.R.S.E., <i>President, Kamarupa Anusundhan Samiti, Minister to the Government of Assam. Rosaville, Nangthymai, Shillong, Assam.</i>
3-12-23	R	Barwell, N. F. , LT.-COL (RETD.), M.C., M.A., <i>Bar-at-Law. First Floor, 10, Middleton Street, Calcutta (and) Aylmerton House, Aylmerton, Norfolk, England.</i>
6-1-30	A	Bassewitz, COUNT , <i>late Consul-General for Germany. Europe.</i>
4-3-29	R	Basu, THE HON'BLE BEJOY K. , C.I.E., M.A., B.L., <i>Solicitor, High Court. 50, Goaltule Road, Bhawanipore, Calcutta</i>
3-12-24	R	Basu, JATINDRA NATH , M.A., M.L.C., <i>Solicitor. 14, Baloram Ghose Street, Calcutta.</i>
1-3-26	R	Basu, NARENDRA KUMAR , M.L.C., <i>Advocate, High Court. 12, Ashu Biswas Road, Bhawanipore, Calcutta.</i>
2-1-28	R	Basu, NARENDRA MOHAN , M.Sc., <i>Professor of Physiology. 63, Hindusthan Park, Ballygunge, Calcutta.</i>
7-5-28	R	Basu, NARENDRA NATH , L.M.S., <i>Professor of Obstetrics and Gynaecology, Carmichael Medical College 7, Raja Bagan Street, Calcutta</i>
7-1-29	R	Basu, SARAT CHANDRA , <i>Advocate. 143, Dhurumtollah Street, Calcutta</i>
5-2-34	N	Bates, WILLIAM HAYES , <i>Ceramic Engineer, Burn & Co., Ltd. Ranigunj, Dt. Burdwan.</i>
7-7-09	N	Bazaz, RANGNATH KHEMRAJ , <i>Proprietor, Shri Venkateshwar Press. 7th Khetwadi, Bombay No. 4.</i>
3-7-95	L	Beatson-Bell, REV. SIR NICHOLAS DODD , K.C.S.I., K.C.I.E. <i>Edgecliffe, St. Andrews, Scotland.</i>
7-5-34	R	Bent, WILLIAM ANTONY , <i>Assistant, Messrs. George Henderson & Co., Ltd. 101/1, Clive Street, Calcutta.</i>
4-3-25	R	Benthall, SIR EDWARD C. , KT., <i>Merchant. 37, Ballygunge Park, Calcutta.</i>
7-4-09	L	*Bentley, CHARLES A. , C.I.E., M.B., D.P.H., D.T.M. & H., F.A.S.B., <i>Professor of Hygiene. University of Egypt, Cairo.</i>
4-11-29	R	Berthoud, GEORGE FELIX , <i>Stock-broker. 12, Russell Street, Calcutta.</i>
4-6-28	N	Bhadra, SATYENDRA NATH, RAI BAHADUR , M.A., <i>Principal, Jaannath Intermediate College. Nayabazar, Dacca.</i>
1-8-17	R	*Bhandarkar, DEVADATTA RAMKRISHNA , M.A., PH.D., F.A.S.B., <i>10, Ritchie Road, Ballygunge, Calcutta.</i>
5-4-26	N	Bhatia, M. L. , M.Sc., <i>Lecturer in Zoology. Lucknow University, Lucknow.</i>

Date of Election.		
4-11-08	R	Bhattacharya , BISVESVAR, B.A., M.B.A.S. 16, Townshend Road, Bhawanipore, Calcutta.
1-2-22	N	Bhattacharya , VIDHUSHEKHARA, PANDIT, <i>Principal, Vidyabhavana</i> . Visvabharati, Santiniketan, Birbhum.
7-7-24	L	Bhattacharyya , BINOYTOSH, M.A., PH.D., <i>Rajaratna, General Editor, Gaekwad's Oriental Series, and Librarian, Oriental Collections, Baroda State</i> . Baroda.
2-4-28	R	Bhattacharyya , NIBARAN CHANDRA, M.A., <i>Professor of Physiology, Presidency College</i> . 19, Hindusthan Road. Ballygunge, Calcutta.
9-6-22	R	Bhattacharyya , SIVAPADA, M.D. 48B, Kailas Bose Street, Calcutta.
4-6-28	N	Bhattasali , NALINI KANTA, M.A., PH.D., <i>Curator, Dacca Museum</i> . Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., <i>Advocate, Calcutta High Court</i> . 244, Ray Bagan Street, Calcutta.
5-2-34	N	Bhuyan , NIKHYA KUMAR, M.A., B.L., A.E.S., <i>Honorary Provincial Director of Historical and Antiquarian Studies, Assam; Professor, Cotton College</i> . Gauhati, Assam.
5-3-28	R	Biswas , CHARU CHANDRA, C.I.E., M.A., B.L., <i>Advocate, High Court</i> . 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	R	Biswas , KALIPADA, M.A. Royal Botanic Garden, Sibpur, Howrah.
3-1-27	N	Bivar , HUGH GODFREY STUART, I.C.S., <i>District and Sessions Judge</i> . Murshidabad.
1-2-93	L	* Bodding , REV. P. O., M.A (CHRIST.), F.A.S.B. Gullerassenveien 27, Vettakollen, Oslo, Norway.
6-3-95	R	* Bose , SIR JAGADIS CHANDRA, KT, C.S.I., C.I.E., F.R.S., M.A., D.S.C., F.A.S.B. Bose Institute, 91, Upper Circular Road, Calcutta.
6-7-25	R	Bose , MANMATHA MOHAN, M.A., <i>Late Professor, Scottish Church College</i> . 19, Gokul Mitra Lane, Hatkhola, Calcutta.
2-3-31	N	Bose , SUDHANSU KUMAR, B.SC. (CAL.), A.R.S.M., B.SC. (MINING), <i>London, Professor of Mining and Surveying</i> . Indian School of Mines, Dhanbad.
5-11-28	N	Bose MULLICK, G. N., M.A., <i>Professor of History</i> . Meerut College, Meerut, U.P.
4-5-31	R	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., <i>Director of Public Instruction, Bengal</i> . 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., <i>Adviser in Languages and Secretary to the Board of Examiners</i> . Army Headquarters, Simla.
1-1-08	L	* Brahmachari , SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.A.S.B. 82/3, Cornwallis Street, Calcutta.
7-11-27	N	Brahmachary , SARAT CHANDRA, RAI BAHADUR, M.A., B.T. Kasha Road, Ballygunge, P.O. Dhakuria, 24-Pergs.
3-7-07	L	* Brown , JOHN COGGIN, O.B.E., D.S.C., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
6-10-09	R	* Brown , PERCY, A.R.C.A., F.A.S.B., <i>Curator, Victoria Memorial</i> , Calcutta.
6-10-09	L	* Brühl , PAUL JOHANNES, I.S.O., D.S.C., F.C.S., F.G.S., F.A.S.B. 2, Convent Road, Bangalore.
8-1-96	F	* Burn , SIR RICHARD, KT, C.S.I., F.A.S.B. 9, Staverton Road, Oxford, England.

Date of Election.		
3-12-34	N	Burt , BRYCE CHUDLEIGH, C.I.E., M.B.E., B.SC., I.A.S., <i>Agricultural Expert, Imperial Council of Agricultural Research</i> 1, York Road, New Delhi.
2-4-13	R	Calder , CHARLES CUMMING, B.SC., F.L.S., <i>Superintendent Royal Botanic Garden.</i> Sibpur, Howrah.
4-11-29	R	Campbell , G. R., <i>Partner, Messrs. Mackinnon Mackenzie & Co.</i> 16, Strand Road, Calcutta.
7-2-27	R	Captain , DARA MANEKSHAW, <i>Merchant.</i> 1, Corporation Street, Calcutta.
1-9-20	R	Chakladar , HARAN CHANDRA, M.A. 28/4, Srimohan Lane Kalighat, Calcutta.
7-3-32	R	Chakraborty , KHIRODE BEHARI. <i>Engineer and Manufacturer.</i> 7, Hindusthan Park, P.O Ballygunge, Calcutta.
4-7-27	R	Chakravarti , CHINTAHARAN, M.A., <i>Lecturer, Bethune College</i> 28/3, Sahanagar Road, Kalighat, Calcutta.
3-2-30	N	Chakravarti , M. N., M.SC., A.T.S. "Gitanjali". 15, Lodge Road, Lahore.
3-3-09	R	Chakravarti , NILMANI, M.A., <i>Late Professor of Sanskrit and Pali, Presidency College.</i> Calcutta.
5-6-33	N	Chakravarti , SUSIL KUMAR, M.A., <i>Zemindar.</i> Cooch Behar (Cooch Behar State).
3-1-27	N	Chakravarty , NIRANJANPRASAD, M.A., PH.D. (CANTAB.), <i>Government Epigraphist.</i> Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
6-1-30	A	Chakraverti , SHRISH CHANDRA, B.L., <i>Attorney-at-Law, High Court, Calcutta.</i> 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda , RAMAPRASAD, RAI BAHADUR, B.A., F.A.S.B. P. 463, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman , JOHN ALEXANDER, <i>Librarian, Rampur State Library.</i> Rampur.
7-5-28	R	Chatterjee , SIR NALINI RANJAN, KT., M.A., B.L., <i>Retired Judge and sometime acting Chief Justice, Calcutta.</i> 91A, Harish Mukerjee Road, Bhawanipore, Calcutta.
7-2-27	R	Chatterjee , ASHOKE, B.A. (CAL.), B.A. (CANTAB.), <i>Editor, "Welfare".</i> 91, Upper Circular Road, Calcutta.
27-10-15	F	Chatterjee , SIR ATUL CHANDRA, K.C.I.E., K.C.S.I., <i>Late High Commissioner for India.</i> Withdean, Cavendish Road, Weybridge, Surrey, England.
1-10-20	R	Chatterjee , NIRMAL CHANDRA. 52, Haris Mukerjee Road, Bhawanipore, Calcutta.
4-7-27	R	Chatterjee , PATITPABON, M.A., B.L., <i>Vakil, High Court.</i> 84, Harrison Road, Calcutta
5-1-31	R	Chatterji , DURGACHARAN, M.A., P.R.S., <i>Lecturer in Sanskrit, Bethune College.</i> P. 317, Jatin Das Road, Kalighat, Calcutta.
4-6-34	N	Chatterji , BIJAN RAJ, PH.D. (London), D.LITT. (PUNJAB), <i>Professor of History, Meerut College.</i> Meerut.
7-5-28	R	Chatterji , KEDAR NATH, B.SC. (LONDON), A.E.C.S. (LONDON). 43, Wellesley Street, Calcutta.
7-6-11	R	Chatterji , KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 8/1, Wood Street, Calcutta
6-8-24	R	Chatterji , SUNTI KUMAR, M.A. (CAL.), D.LIT. (LONDON), <i>Khairu Professor of Linguistics, Calcutta University.</i> "Sudharma", 16, Hindusthan Park, (off Rasbihari Avenue East End), Ballygunge, Calcutta.
5-11-24	R	Chattopadhyay , K. P., M.SC., <i>Education Officer, Corporation of Calcutta.</i> 55/1, Old Ballygunge 1st Lane, Calcutta.

Date of Election.		
2-11-25	N	Chattopadhyaya, KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit.</i> Allahabad University, Allahabad.
1-4-14	R	Chaudhuri, GOPAL DAS. 32, Beadon Row, Calcutta.
6-12-26	R	Chokhani, SREENARAYAN, <i>Secretary, Shree Hanuman Pustkalaya.</i> 8, New Ghuseri Road, Salkea, Howrah.
5-12-23	R	Chopra, B. N., D.SC., F.L.S., <i>Assistant Superintendent, Zoological Survey of India.</i> Indian Museum, Calcutta.
1-2-22	R	*Chopra, R. N., C.I.E., M.A., M.D. (CANTAB.), LT.-COL., I.M.S., F.A.S.B., <i>Professor of Pharmacology.</i> School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.
5-11-28	R	Chopra, GOPICHAND. 47, Khangraputty, Calcutta.
5-12-27	L	Chowdhury, SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road, Calcutta.
2-4-28	R	Chowdhury, RAI JATINDRANATH, <i>Zemindar.</i> 36, Russa Road, Tollygunge, Calcutta.
3-7-07	L	*Christie, WILLIAM ALEXANDER KYNOCH, B.SC., PH.D., M.INST.M.M., F.A.S.B. c/o The Lloyds Bank, 6, Pall Mall, London, S. W. 1.
3-11-09	A	*Christophers, SIR SAMUEL RICKARD, KT., C.I.E., O.B.E., F.R.S., F.A.S.B., M.B., LT.-COL., I.M.S. 80, Onslow Gardens, South Kensington, London, S.W. 7.
1-9-15	R	Cleghorn, MAUDE LINA WEST (MISS), F.L.S., F.E.S. 43, Moulahat Road, Calcutta.
1-2-32	F	Clendenin, DAVID LAWRENCE, B.A. (Yale, 1928). 32, East 64 Street, New York City, U.S.A.
2-2-31	R	Clough, JOHN, <i>Barriester-at-Law.</i> 17, Store Road, Ballygunge, Calcutta.
5-5-30	F	Cooper, G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
6-11-33	R	Coulson, ARTHUR LENNOX, D.SC. (MELB.), D.I.C., F.G.S. <i>Geological Survey of India,</i> 27, Chowringhee, Calcutta.
4-11-29	F	*Cotter, GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.A.S.B. "Norland", Manon Road, Buckinghamshire, England.
3-8-25	N	Coyajee, SIR J. C., KT., B.A. (CANTAB.), LL.B., I.E.S. (RETI.). Andhra University, Waltair, B.N.R.
5-3-34	R	Craddock, SIR WALTER MERRY, KT., D.S.O., COLONEL, M.C., <i>Sheriff of Calcutta, Stock Broker.</i> Bengal Club, Calcutta.
25-8-87	R	Criper, WILLIAM RISON, F.C.S., F.I.C., A.R.S.M. Konnagar.
2-11-25	R	Crookshank, HENRY, B.A., B.A.I. (DUBLIN), <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta
7-3-32	R	Darbari, M.D., <i>Incorporated Accountant, S.B. Billimoria & Co., Ltd.</i> 100, Clive Street, Calcutta.
4-3-25	R	Das, AJIT NATH, RAI BAHADUR, M.R.A.S., F.Z.S., <i>Zemindar.</i> 24, South Road, Entally, Calcutta.
2-7-28	R	Das, PROBODH KUMAR, M.A., B.L. P-84, Park Street Extension, Calcutta.
3-12-24	R	Das, SURENDRA NATH, M.B., <i>Medical Practitioner.</i> 67, Nimtala Ghat Street, Calcutta.
6-9-22	R	Das-Gupta, SURENDRA NATH, M.A., PH.D., I.E.S., <i>Principal, Sanskrit College.</i> 1, College Square, Calcutta.
1-3-26	R	Datta, HIRENDRA NATH, M.A., B.L., <i>Solicitor, High Court.</i> 139, Cornwallis Street, Calcutta.
3-6-25	N	Datta, S. K., B.A., M.B., CH.B. (EDIN.), <i>Principal, Forman Christian College.</i> Lahore.

Date of Election		
4-6-34	R	Daver, NANABHOY SORABJI, B.A. (HONS.), <i>Mercantile</i> . c/o Parke, Davis & Co., 5, Dharamtola Street, Calcutta.
6-8-24	L	Davies, L. M., I.T.-COL., LATE R.A., M.A., F.R.S.E., F.R.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	A	De, J. C., M.B., I.T.-COL., I.M.S., <i>Professor of Clinical Medicine, Medical College</i> . 229, Lower Circular Road, Calcutta.
19-9-95	L	De, KIRAN CHANDRA, C.I.E., B.A., I.C.S. (RETD.), <i>Manager, Nawab Bahadur of Murshidabad Estate</i> . Lalbagh, Murshidabad.
4-3-25	R	Deb, RAJA KSHITINDRA, RAI MAHASAI OF BANSBERIA RAJ. 21/E, Rani Sankari Lane. Kalighat, Calcutta.
5-12-32	N	Deb, SUSHIL KUMAR, B.A. Sheikhghat, P.O. Sylhet, Dt. Assam.
5-12-27	L	Dechhen, H.H. MAHARANI KUNZANG, <i>Maharani of Sikkim</i> . Gangtok, Sikkim.
5-5-30	N	Deo, SIR PRATAP CHANDRA BHANJ, K.C.I.E., <i>Maharajah, Ruler of Mayurbhanj State</i> . P.O. Baripada, Mayurbhanj, B.N.R.
4-4-27	N	Dewick, REV EDWARD CHISHOLM, M.A. (CANTAB.), <i>Principal, N.M.S. College</i> . Gorakhpur.
4-5-10	L	Dhavl, THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., <i>Judge, Patna High Court</i> Patna.
4-8-20	N	Dikshit, KASHINATH NARAYAN, M.A., c/o The Office of the Director-General of Archaeology, New Delhi.
5-1-98	R	Dods, WILLIAM KANE, <i>Agent, Hongkong and Shanghai Banking Corporation</i> . 6, Minto Park, Alipur, Calcutta.
2-2-31	N	Douglas, GORDON WATSON, B.SC., D.L.M., <i>State Chemist to the Government of Bhopal</i> . State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey, FREDERICK. c/o J. Doxey, Esq., Brighton Villa, 97, Burnage Lane, Levenshulme, Manchester, England.
7-11-32	R	Driver, DARAB CURSETJI, M.A. (CANTAB.), <i>Barrister-at-Law, Constituted Attorney to Messrs Tata & Sons, Ltd., Managing Agents for The Tata Iron & Steel Co., Ltd.</i> 71/73, Park Street, Calcutta.
7-5-34	R	Duncan, PERCIVAL CAIRNCROSS, <i>Mercantile Assistant with Messrs. George Henderson & Co., Ltd</i> 101/1, Clive Street, Calcutta.
1-7-29	A	Dunn, JOHN ALEXANDER, D.SC., D.I.C., F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-1-33	R	Dutch, ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., <i>Joint Magistrate and Deputy Collector</i> . Barrackpur.
3-7-33	R	Dutt, GURU SADAY, <i>Barrister-at-Law</i> , I.C.S. 12, Loudon Street, Calcutta.
5-12-32	R	Dutt, NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), <i>Lecturer, Calcutta University</i> . 91-1B, Manicktollah Street, Calcutta.
5-3-28	A	Eberl, OTTO, DR JUR., <i>Late Vice-Consul for Germany</i> . 2, Store Road, Ballygunge, Calcutta.
4-11-29	R	Edwards, L. BROOKE, <i>Manager in India, The Baldwin Loco. Works of Philadelphia, U.S.A.</i> 5, Dalhousie Square, Calcutta.
7-12-31	F	Eliade, MIROEA, <i>Docteur en Philosophie, Conferentiaire Universitaire</i> . 1 Str. Melodie, Bucharest (1).
5-1-31	L	Evans, PERCY, B.A. (CANTAB.), F.G.S., <i>Geologist</i> . c/o The Burma Oil Co., Digboi, Assam.

Date of Election.		
6-2-28	L	Ezra, SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-12-29	A	Fawcus, LOUIS REGINALD, B.A. (CANTAB.), <i>Indian Civil Service</i> . 13, Loudon Street, Calcutta.
3-8-04	R	*Fermor, LEWIS LEIGH, O B.E., M.INST.M.M., D.SC., A.R.S.M., F.G.S., F.R.S., F.A.S.B., <i>Director, Geological Survey of India</i> , 27, Chowringhee, Calcutta.
31-10-06	F	Finlow, ROBERT STEEL, C.I.E., B.SC., F.I.C., <i>Late Director of Agriculture, Bengal</i> . c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.
2-12-29	F	Fisher, REV. FREDERICK B., S.T.B., PH.D., D.D., LL.D., F.R.S.S. 1430, Cambridge Road, Ann Arbor, Michigan, U.S.A.
4-1-26	F	Fleming, ANDREW. Post Box No. 2436, Johannesburg, S. Africa.
5-1-31	R	Fooks, HERBERT A. 14, Ballygunge Park Road, Ballygunge, Calcutta.
5-11-13	R	Fox, CYRIL S., D.SC. BIRM., M.I.M.E., F.G.S. <i>Geological Survey of India</i> , 27, Chowringhee, Calcutta.
2-4-19	A	Friel, RALPH, I.C.S., B.A., B.SC. (DUBLIN), J.P., <i>Deputy Commissioner, Assam</i> . Silchar, Assam.
7-3-27	F	Fukushima, NAOSHIRO. 33, Hikawacho, Akasaka, Tokyo, Japan.
5-11-28	R	Galstaun, JOHN CARAPIET, O.B.E., <i>Merchant and Landholder</i> . 234/4, Lower Circular Road, Calcutta.
1-11-26	R	Galstaun, SHANAZAN, M.A., D.M.B.E., M.R.C.S., L.R.C.P., <i>Medical Practitioner, Radiologist, Medical College Hospital</i> . 39, Theatre Road, Calcutta.
6-10-09	R	*Gangoly, ORDHENDRA COOMAR, B.A., F.A.S.B. 12/1, Gangoly Lane, Calcutta.
5-11-34	R	Gee, EDWARD ROWLAND, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-1-33	R	George, JAMES, B.A. (CANTAB.), I.C.S., <i>Special Officer, Political Department, Govt. of Bengal</i> . United Service Club, Calcutta.
4-1-26	R	Ghaffar, ABDUL, KHAN BAHADUR, <i>Additional Chief Presidency Magistrate</i> . 23, Gardner Lane, Entally, Calcutta.
6-2-33	L	Ghatak, JYOTISH CHANDRA. M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, <i>Professor</i> . 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.
7-5-28	R	Ghosal, UPENDRA NATH, M.A., PH.D., <i>Professor of History, Presidency College</i> . 12, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose, BIMAL CHANDRA, <i>Barrister-at-Law</i> . 27/1, Harish Mukherjee Road, Calcutta.
1-4-29	R	Ghose, DEB PROSONNO, <i>Zemindar</i> . 75, Beadon Street, Calcutta.
7-1-29	R	Ghose, THE HON'BLE MR. JUSTICE MOHIM CHANDRA, B.A. (CAL.), M.A. (CANTAB.), I.C.S., <i>Barrister-at-Law (Inner Temple), Judge, High Court</i> . 4A, Little Russell Street, Calcutta.
12-24	R	Ghose, SUSHIL CHANDRA, B.A., <i>Deputy Magistrate</i> . 1, Sikdarbagan Street, Calcutta.
2-4-24	R	Ghosh, K., D.T.M., D.P.H. (CANTAB.), L.M.S., <i>Medical Practitioner</i> . 45, Creek Row, Calcutta.

Date of Election.		
7-3-27	R	Ghosh, PHANINDRA NATH, M.A., PH.D., SC.D. (PADUA), F.INST.P., <i>Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh, TARAPADA, Zemindar. 14, Paddapukur Street, Kidderpore, Calcutta.
1-2-26	R	Ghuznavi, A. H., M.L.A., Zemindar. 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi, ISKANDER S. K., Zemindar and Member, Advisory Board of Industries, Government of Bengal. 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.
1-2-26	R	Ghuznavi, ALHADJ SIR ABDELKERIM ABU AHMED KHAN, KT., M.L.C., Zemindar of Dilduar. 45, Jhowtolla Road, Calcutta (and) North House, Dilduar, Mymensingh.
3-12-34	R	Gladstone, JOHN, Assistant, Messrs. Gillanders Arbuthnot & Co., Ltd. 8, Olive Street, Calcutta.
5-3-28	R	Gooptu, DWIJENDRA NATH, Medical Practitioner and Landholder. 5, Middleton Street, Calcutta.
7-9-10	N	*Gravelly, FREDERIC HENRY, D.SC., F.A.S.B. Museum House, Egmore, Madras.
5-12-00	L	Grieve, JAMES WYNDHAM ALLEYNE. c/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-2-25	A	Guha, B. S., M.A., PH.D. (HARVARD). Indian Museum, Calcutta.
6-12-26	R	Guha, THE HON'BLE MR. JUSTICE SURENDRANATH, RAI BAHADUR, Judge, High Court. 20, Lansdowne Road, Calcutta.
7-5-28	R	Gupta, J. N., M.B.E., C.I.E., I.C.S., Late Member, Board of Revenue, Government of Bengal. 5, Riverside, Barrackpore.
5-3-19	N	Gupta, SIVAPRASAD. Seva Upavana, Benares City.
5-8-15	R	Gurner, CYRIL WALTER, B.A. (OXON), I.C.S., Chairman, Improvement Trust. 4, Theatre Road, Calcutta.
6-3-01	N	Habib-ur-RAHMAN, THE HON'BLE NAWAB SADR YAR JUNG, MAULANA, Rais, Bhikanpur. Hahibganj, District Aligarh.
5-2-34	R	Haldar, BHARATI VIKAS. M.A., B.L., Advocate, High Court. 47, Haldarpur Road, Kalighat, Calcutta.
6-1-30	R	Haldar, SUDHINDRA KUMAR, M.A., I.C.S., Commissioner of Excise and Salt, Bengal. 241, Lower Circular Road, Calcutta.
6-1-30	F	Hamilton, SIR DANIEL MACKINNON, KT., Retired Partner, Messrs. Mackinnon Mackenzie & Co. Balmacara, Rosshire, Scotland.
2-4-24	R	Haq, M. MAHFUZ-UL, M.A., Lecturer, Presidency College. 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	R	Harley, ALEXANDER HAMILTON, M.A., I.E.S., Principal, Islamia College. 19, Wellesley Square, Calcutta.
1-2-26	F	Harris, H. G., c/o Messrs. Martin & Harris, Ltd., Rowlette Buildings. 17, Prinsep Street, Calcutta.
2-4-28	R	Harris, LAWRENCE ERNEST, Engineer, Manager for India, Messrs. Sulzer Brothers. 4, Lyons Range, Calcutta.
5-11-19	N	Hemraj, MANYABARA RAJ GURU, C.I.E., PANDITJI. Dhokatole, Nepal.
3-2-30	F	Henderson, ALEXANDER GAVIN, B.A. (OXON). Buscot Park, Faringdon, Berks, England.
6-8-28	R	Heron, A. M., D.SC. (EDIN.), F.G.S., F.R.G.S., F.R.S.E., Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.

Date of Election.		
6-11-33	F	Hertz, Miss GERTA, PH.D., (KIEL UNIVERSITY). c/o Firma Vorwerk, Tiefenbacher, Franahein, Fehlin; Dres.-Kaufmannshaus Bleichenbrücke, Hamburg.
7-6-11	L	* Hidāyat Hosain, MUHAMMAD, SHAMS 'UL-'ULAMA, KHAN BAHADUR, PH.D., F.A.S.B. 96/2c, Collin Street, Calcutta.
1-2-26	A	Hingston, H., Lt.-Col., I.M.S., M.D., Surgeon to H.E. the Governor of Bengal. 5, Wellesley Place, Calcutta.
4-6-28	N	Hobart, ROBERT CHARLES, I.C.S. Commissioner's House, Gorakhpur, U.P.
1-4-25	R	Hobbs, HENRY, Merchant. 9, Old Court House Street, Calcutta.
1-2-32	R	Holme, JAMES WILLIAM, M.A., I.E.S. (RETD.), Principal, La Martinière. 11, Loudon Street, Calcutta.
7-3-27	N	Hopkinson, ARTHUR JOHN, I.C.S., Secretary to the Government, N.-W.F. Province. Peshawar, N.-W.F.P.
2-11-21	L	* Hora, SUNDER LAL, D.S.C., F.Z.S., F.R.S.E., F.A.S.B. Zoological Survey of India, Indian Museum, Calcutta.
5-11-34	R	Hosain, PRINCE AFSARUL MULUK MIRZA MUHAMMED AKRAM, BAHADUR, Political Pensioner and Landholder. Afsar Manzil, 20, Ballygunge Circular Road, Calcutta.
6-6-23	L	* Howard, SIR ALBERT, KT., C.I.E., M.A., F.A.S.B., Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India. British Science Guild, 6, John Street, Adelphi, London, W.C. 2.
4-1-26	R	Hubert, OTTO, Chancellor to the German Consulate General. 3, Lansdowne Road, Calcutta.
7-3-32	N	Hughes, ARTHUR, B.A. (MANCHESTER), Indian Civil Service, Additional District Magistrate. Dacca.
6-8-34	N	Husain, SYED ATA, M.A. (CAL.), C.E. (ROORKEE), RETIRED Superintending Engineer, Hyderabad State. Mohalla Lingumpally, Hyderabad, Deccan.
6-6-23	N	* Hutton, J. H., C.I.E., I.C.S., M.A., D.S.C., F.A.S.B., Chief Secretary to Government of Assam, Shillong. Assam.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe, Hants, England.
5-12-23	R	Jackson, P. S. 4, Temple Chambers, 6, Old Post Office Street, Calcutta.
6-6-27	L	Jain, BALDEODAS, Merchant and Banker. 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHHOTÉ LAL, M.R.A.S. 25, Central Avenue North, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Devashrama, Arrah.
6-8-28	N	Jaitly, P. L., Electrical Engineer, Merchant. 15, Canning Road, Allahabad.
1-11-26	N	Jameson, THOMAS BLANDFORD, MAJOR, M.C., M.A. (CAN-TAB.), I.C.S., District and Sessions Judge. Hooghly.
4-11-29	F	Jarvis, ROBERT Y. The Department of State, Washington, District Columbia, U.S.A.
6-5-25	R	Jatia, SIR ONKAR MULL, KT., O.B.E., Merchant. 2, Rupchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN, D.S.C. (SHEFFIELD), I.E.S. Principal, David Hare Training College. United Service Club, Calcutta.
5-4-26	R	Jones, THORNTON, Solicitor. c/o Messrs. Morgan & Co., 1, Hastings Street, Calcutta.
2-4-24	R	Judah, N. J., M.B., CH.B., F.R.C.S. 43, Chowringhee, Calcutta.

Date of Election.		
1-11-11	L	Kamaluddin AHMAD, SHAMS-UL-'ULAMĀ, M.A., I.E.S., <i>Principal, Krishnagar College. Krishnagar, Nadia. *</i>
5-3-24	R	Kanjilal, M. N., M.A. (CAL.), LL.B. (CANTAB.), Barrister-at-Law. 17, Loudon Street, Calcutta.
6-11-33	R	Kavyatirtha, RAM DHAN, Pundit. 55, Surendranath Banerjee Road, Calcutta.
4-5-10	L	*Kemp, STANLEY W., B.A., D.SC., F.R.S., F.A.S.B. 'Discovery Expedition,' 52, Queen Anne Chambers, Dean Farrar Street, London, S.W. 1.
2-5-30	N	Kenny, DIK EDWARD COURTENAY, LT.-COL., I.A., Deputy Commissioner, Tavoy. Burma.
6-2-28	N	Kewal, GANDA SINGH, PH.B.SC., I.O.G.E., F.R.G.S. (LONDON), F.T.S., F.I.A. SC. (LONDON), Research Scholar in Sikh History. Khalsa College, Amritsar.
1-2-26	R	Khambata, R. B., M.R.C.S., L.R.C.P., D.P.H., Director of Public Health, Bengal. 2-B, Camac Street, Calcutta.
2-12-29	N	Khan, MATIUR RAHMAN, Khas Mahal Circle Officer. 27, Panchbhaghata, Dacca
3-12-24	R	Khan, REZAUR RAHMAN, M.A., B.L., Deputy President, Bengal Legislative Council. 28, Convent Road, Entally, Calcutta.
6-5-25	R	Khanna, VINAYEK LAL, M.B.A.S., Merchant. 137F, Balaram Dey Street, Beadon Street P.O., Calcutta.
2-8-26	R	Khettry, BENIMADHO, Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants. 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (Ko-Shi), Principal, College Department of Rishso University. Osaka Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER, B.Sc., Inspector of Mines in India. Dhanbad, E.I.R.
7-7-20	R	*Knowles, ROBERT, M.R.C.S., L.R.C.P., B.A. (CANTAB.), F.A.S.B., LT.-COL., I.M.S. Lower Flat, 29, Theatre Road, Calcutta.
6-5-25	F	Koester, DR. HANS, Legations Sekretar. Auswaertiges Amt, Abteilung W., Berlin W. 8, Wilhelmstrasse 75.
3-2-30	R	Korni, MICHAEL ALEXANDROWITZ (DR.), Architect and Engineer, Messrs. Bird & Co Chartered Bank Buildings, Clive Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.), PH.D., Lecturer in Ancient Indian History (Fine Arts), Calcutta University. 57, Ballygunge Circular Road, Calcutta.
3-9-34	R	Krishnan, K. S., D.Sc., Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science. 210, Bowbazar Street, Calcutta.
6-11-33	R	Krishnan, M. S., M.A. (MADRAS), PH.D. (LOND.), A.R.C.S., D.I.C. (LOND.), Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
2-4-28	R	Kumar, KUMAR KRISHNA, M.A., B.L., Zemindar and Banker. 31 & 31-1, Burtolla Street, Calcutta.
7-3-23	R	Labey, GEORGE THOMAS, M.C., Bengal Pilot Service. United Service Club, Calcutta.
1-4-25	N	Laden La, SONAM WANGFEL, SARDAR BAHADUR, C.B.E., F.R.G.S., Hony. A.D.C. to H.E. the Governor of Bengal, Chief of Police, Lhasa, Tibet. 'Yangang Villa', Darjeeling.
6-3-89	L	*La Touche, THOMAS HENRY DIGGES, M.A., F.G.S., F.A.S.B. 230, Hills Road, Cambridge, England.
5-2-34	R	Law, BHABANI CHURN, Merchant, Zamindar and Artist. 223, Cornwallis Street, Calcutta.

Date of Election.		
5-8-14	L	LAW, BIMALA CHARAN, M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.
1-2-11	R	LAW, NARENDRA NATH, M.A., B.L., F.R.S., PH.D. 96, Amherst Street, Calcutta.
1-7-14	R	LAW, SATYA CHURN, M.A., B.L., PH.D., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
3-9-34	R	Ledrus, MICHAEL, <i>Professor in Divinity, Lecturer at the Gregorian University, Rome; Member of the Society of Jesus, Editor, 'The New Review'.</i> St. Xavier's College, 30, Park Street, Calcutta.
7-6-26	R	Lemmon, RICHARD DENNIS, <i>Merchant.</i> c/o Messrs. Martin & Harris Ltd., 17, Prinsep Street, Calcutta.
3-5-11	R	Lomax, C. E., M.A. La Martinière, 11, Loudon Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN, K.C., <i>Barrister-at-Law, Judge, High Court.</i> 227/1, Lower Circular Road, Calcutta.
4-3-29	R	Lunan, A. G., <i>Partner, Messrs. Bathgate & Co.</i> 19, Old Court House Street, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM, I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID, LT.-COL., I.M.S., M.D., B.CH., B.A.O., M.R.C.P., F.A.S.B. c/o The Standard Bank of S. Africa, Cradock, Cape Province, S. Africa.
1-3-26	A	McKay, JOHN WALLACE, <i>Delegate, Chilean Nitrate Committee (Indian Delegation).</i> 7, Hare Street, Calcutta.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS, K.C.S.I., K.C.I.E., F.A.S.B. 39, Egerton Terrace London, S.W. 3.
5-3-24	R	McPherson, JAMES. c/o Messrs. Begg Dunlop & Co., Ltd., 2, Hare Street, Calcutta.
7-6-16	N	Mahajan, SURYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C., M.A., B.SC., I.E.S., <i>Professor, Presidency College.</i> 210, Cornwallis Street, Calcutta.
1-3-11	R	Mahtab, SIR BIJAY CHAND, K.C.S.I., I.O.M., MAHARAJA DHIRAJA BAHADUR OF BURDWAN. 6, Alipur Lane, Calcutta.
3-2-30	N	Mahtab, UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan.</i> The Palace, Burdwan.
6-2-24	R	Mahindra, K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.
7-7-30	N	Mahudavala, JEHANGIR J., B.COM. (BIRMINGHAM), <i>Insurance Representative.</i> c/o J. C. Mahudavala, Esq., Fort, Broach, B.B. & C.L.Ry.
7-8-18	R	Maltra, JATINDRA NATH, <i>Physician and Surgeon.</i> 68/A, Beadon Street, Calcutta.
9-6-20	R	Majumdar, NANI GOPAL, M.A. Archaeological Survey of India, Indian Museum, Calcutta.
2-2-16	R	Majumdar, NARENDRA KUMAR, M.A., <i>Professor, Calcutta University.</i> 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar, RAMESH CHANDRA, M.A., PH.D., <i>Professor, Dacca University.</i> Ramna, Dacca.
5-5-30	N	Mallam, G. L., CAPTAIN, I.A., <i>Census Superintendent.</i> Peshawar, N.-W.F.P.
7-5-28	R	Mallik, THE HON'BLE MR. JUSTICE SATYENDRA CHANDRA, M.A., I.C.S., <i>Judge, High Court.</i> 7-3, Burdwan Road, Alipur, Calcutta.
4-11-29	R	Malliya, BANTWAL GANAPATHY, MAJOR, I.M.S., F.R.C.S.E Civil Surgeon, Howrah.

Date of Election.		
6-2-18	L	*Manen, JOHAN VAN, C.I.E., <i>Officier de l'Instruction Publique</i> , F.A.S.B. 6, Temple Chambers, 6, Old Post Office Street, Calcutta.
5-6-01	F	Mann, HAROLD HART, D.SC., M.SC., F.I.C., F.L.S. Woburn Experimental Station, Aspley Guise, Bedfordshire, England.
6-1-30	N	Martin, M. F. C., CAPT., R.E. c/o The Garrison Engineer, Mingladon, Burma.
5-5-30	R	Matthias, OWEN GARDINER, <i>Managing Director</i> , Messrs. <i>Smith Stanistreet & Co., Ltd.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
2-1-28	N	Mello, FROILANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India</i> , <i>Professor of Parasitology</i> . Nova Gôa.
5-11-84	L	*Middlemiss, CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.3., F.A.S.B. Aviemore, Crowborough, Sussex, England.
1-2-26	F	*Mills, JAMES PHILIP, I.C.S., M.A. (OXON), J.P., F.A.S.B., <i>Deputy Commissioner</i> , Assam. Conservative Club, St. James's, London, S.W.1.
5-6-12	N	Misra, CHAMPA RAM, B.A., Rai Bahadur, Pandit, <i>Diwan</i> , <i>Chhatarpur State</i> . Bundelkhand, C.I.
2-4-24	R	Mitra, J. C., M.A., B.L., <i>Retired Accountant-General</i> , Bengal. 1, Abinash Mitter Lane, Calcutta.
4-11-29	R	Mitra, MATHURA NATH, B.A., <i>Solicitor</i> . 12-1, Old Post Office Street, (160/1, Manicktolla Street) Calcutta.
5-3-24	R	Mitter, THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law</i> , <i>Member</i> , <i>Bengal Executive Council</i> . 5, Outram Street, Calcutta.
5-3-24	R	Mitter, THE HON'BLE MR. JUSTICE DWARKANATH, M.A., D.L., <i>Judge</i> , <i>High Court</i> . 12, Theatre Road, Calcutta.
4-3-29	R	Mitter, HIRANYA KUMAR, <i>Landholder</i> . 1, Jhamapukur Lane, Amherst Street P.O., Calcutta.
5-4-26	R	Mitter, KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor</i> , <i>Presidency College (Retired)</i> . 72/1, Bondel Road, Ballygunge, Calcutta.
1-11-26	R	Modi, JAL R. K., B.A. 4, Camac Street, Calcutta.
5-3-34	R	Modi, JEHANGIR JEEVANJI JAMSHEDJI, <i>Merchant</i> . 5, Dhurumtollah Street, Calcutta.
6-8-24	N	Moloney, WILLIAM J., <i>General Manager of Reuter's for the East</i> . c/o 26/7, Dalhousie Square, Calcutta.
2-4-28	R	Mookerjee, BHABADEB, <i>Merchant</i> . 48, Barrackpore Trunk Road, P.O. Baranagore.
1-3-26	R	Mookerjee, ADITYA NATH, M.A., PH.D., <i>Late Principal</i> , <i>Sanskrit College</i> . 10/B, Mohun Lal Street, Shambazar, Calcutta.
5-11-24	R	Mookerjee, B. N., B.A. (CANTAB.), <i>Engineer</i> . 12, Mission Row, Calcutta.
3-5-98	L	Mookerjee, SIR RAJENDRA NATH, K.C.I.E., K.C.V.O., HON. F.A.S.B. 7, Harington Street, Calcutta.
2-7-24	R	Mookerjee, SYAMA PRASAD, M.A., B.L., <i>Vakil</i> , <i>High Court</i> , <i>Fellow of the University of Calcutta</i> . 77, Russa Road North, Calcutta.
5-6-33	A	Morris, C. J., <i>Captain</i> , <i>Indian Army</i> , 2/3rd Q.A.O. <i>Gurkha Rifles</i> . Razinak, Waziristan.
2-5-32	F	Muhammad, MIRZA, KHAN BAHADUR, C.I.E., LL.B., M.B.A.S., <i>Advocate</i> . Strand Road, Basrah.
2-2-21	R	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., <i>Docteur-es-Lettres (Paris)</i> . 3/1A, Raja Rajabullav Street, Calcutta.

Date of Election.		
5-12-27	R	Mukerjee, SUSIL KUMAR , F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals.</i> 1/1, Wood Street, Calcutta.
6-2-28	R	Mukerji, THE HON'BLE MR. JUSTICE MANMATHA NATH , KT., M.A., B.L., <i>Judge, High Court.</i> 8/1, Harsi Street, Calcutta.
5-3-24	R	Mukerji, S. M.A., B.L., <i>Vakil and Zemindar.</i> 7, Old Ballygunge Road, Calcutta.
3-3-30	N	Mukharji, ISAN CHANDRA , <i>Rai Bahadur, Tazimi Sardar and Retired Member of Jaipur Council.</i> Jaipur, Rajputana.
7-11-27	N	Mukherjee, DEVAPROSANNA , M.A., B.L., <i>Zemindar.</i> Burdwan.
2-8-26	R	Mukherjee, JNANENDRA NATH , D.SC. (LONDON), F.C.S. (LONDON), <i>Fellow of the Indian Chemical Society; Khaira Professor of Chemistry, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR , M.A., <i>Research Assistant, Calcutta University.</i> 27, Govinda Ghosal Lane, Bhawanipore, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD , M.A., B.L. 77, Russa Road North, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR , <i>Director, Raja D. N. Mullick & Sons, Ltd</i> Colootola Rajbati, Chittaranjan Avenue, Calcutta
6-8-34	R	Mullick, MANICK LALI , <i>Landholder</i> 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR , <i>Zemindar and Landholder.</i> 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLORIAN OLIPHANT , A.I.M.M., F.G.S., <i>Mining Geologist and Engineer.</i> Tatanagar, B.N.Ry.
1-6-21	N	Muzammil-Ullah Khan, THE HON'BLE NAWAB SIR MOHD., KHAN BAHADUR , K.C.I.E., O.B.E., K.B., LL.D., <i>Rais.</i> Bhikampur, Dt. Aligarh, U.P.
7-3-06	N	Nahar, PURAN CHAND, RAI BAHADUR , <i>Solicitor.</i> c/o 48, Indian Mirror Street, Calcutta.
5-12-27	L	Namgyal, H.H. MAHARAJA SIE TASHI , K.C.I.E., <i>Maharaja of Sikkim</i> Gangtok, Sikkim.
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA , M.A., M.L.C., <i>Zemindar.</i> Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HIRDE , M.A., B.T., <i>Professor of History, Morris College.</i> Nagpur, C.P.
5-2-31	N	Nariman, RUSTOM, K. , M.I.U.E., A.C.H., F.R.G.S. (<i>Retired Superintending Engineer, Punjab Irrigation</i>). <i>Professor of Engineering, Osmania University.</i> 'Gulistan', Sappers Lines, Secunderabad, Deccan.
5-3-28	R	Neogi, PANCHANAN , M.A., PH.D., I.E.S., <i>Professor of Chemistry, Presidency College.</i> 21, Kundu Lane, Belgachia, Calcutta.
3-11-30	R	Newman, CARL DAMIEN , M.B.B.S., D.T.M. & H., <i>District Medical Officer, E.B.Ry</i> 2, Belvedere Park, Alipur, Calcutta.
3-12-24	N	Newman, CHAS F. , F.R.G.S., M.C.P. Bhunga, Estate, Dt. Bahraich, Oudh, U.P.
7-4-15	F	Ohtani, COUNT KOZUI . San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala, E. S. 52, Chowringhee, Calcutta.

Date of Election		
3-9-34	R	Ow-Wachendorf, BARON W., <i>German Consul General, Minister Plenipotentiary.</i> (German Consulate General, 3, Lansdowne Road Calcutta.
5-12-23	N	Pande, SHIVA BANDHAN, <i>Retired Tahsildar and Zemindar.</i> Ramaipatti, Mirzapur, U.P.
5-4-26	R	Parker, RICHARD HENRY, I.C.S., <i>Late Scholar of St. John's College, Oxford.</i> District and Sessions Judge, Alipore, Calcutta.
4-11-29	F	Parry, NEVILL EDWARD, I.C.S. (RETD.). 12, Howell Road, Exeter, England.
5-2-34	R	Pasricha, CHIRANJI LAL, M.A., M.B., B. CHIR. (CANTAB.), M.R.C.S. (ENG.), L.R.C.P. (LOND.), CAPTAIN, I.M.S., <i>Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene.</i> 11, Rowland Road, Calcutta.
6-5-29	F	Pawsey, C. R., <i>Indian Civil Service.</i> c/o. The Lloyds Bank, 6, Pall Mall, London, S.W.1.
6-6-88	L	Pennell, AUBRAY PERCIVAL, B.A., <i>Barrister-at-Law.</i> Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival, FREDERICK GEORGE, PH.D. (LOND.), F.G.S., <i>General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co.</i> Jamshedpur.
1-4-25	R	Perier, FERDINAND, S.J., <i>Most Reverend the Archbishop of Calcutta.</i> 32, Park Street, Calcutta.
7-4-30	N	Pessein, REV. J. F., <i>Catholic Missionary, Superior of the Catholic Missionary Sanatorium.</i> Wellington, Nilgiris.
3-2-30	A	Pettigrew, REV. WILLIAM, <i>Missionary.</i> American Baptist Foreign Mission Society, P.O. Kangpokpi, Manipur, Assam.
6-4-31	N	Prasad, SHARDA. c/o Messrs. Gopinath Lal Behari, Satna.
3-4-18	L	*Prashad, BAINI, D.SC., F.Z.S., F.R.S.E., F.A.S.B., <i>Director, Zoological Survey of India.</i> Indian Museum, Calcutta.
3-8-25	N	Pruthi, HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), <i>Imperial Entomologist, Imperial Institute of Agricultural Research.</i> Pusa, Darbhanga.
3-12-24	R	Pushong, E. S., M.D., L.S.A., <i>Medical Practitioner.</i> 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman, SHAH KALIMUR, M.A., <i>Lecturer in Arabic and Persian, Calcutta University.</i> 51, Baitakhana Road, Calcutta.
6-2-28	N	Rai, LAKSHMI NARAIN, L.M.S., <i>Medical Officer.</i> In-charge, King Edward VII Hospital, Benares.
1-2-22	N	*Raman, SIR CHANDRASEKHARA VENKATA, KT., M.A., D.SC., F.R.S., F.A.S.B., <i>Director, Indian Institute of Science.</i> Bangalore.
1-11-26	N	Ramanujaswami, P. V., M.A., <i>Principal, Maharaja's Sanskrit College.</i> Vizianagram.
6-8-34	R	Rao, U. SHANKER, <i>Bengal Pilot Service.</i> 83, Chowringhee, Calcutta.
1-2-26	N	Rao, Y. RAMACHANDRA, RAO SAHIB, M.A., F.R.S., <i>Locust Research Entomologist.</i> McLeod Road, Karachi.
2-7-24	N	Ray, ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	R	Ray, HEM CHANDRA, M.A., PH.D. (LONDON). P.39A, Manicktollah Spur, Calcutta.

Date of Election.		
5-1-21	N	Ray, JAGADISNATH, MAHARAJA, <i>Maharaja of Dinajpore. Dinajpore.</i>
6-8-34	R	Ray, KARMOJOGIN, <i>Sahityaratna, Landholder, Government Contractor, Merchant and Agent; Proprietor, K. Ray & Co., Landing Shipping Agency. 17A, Brindaban Paul Lane, P.O. Shambazar, Calcutta.</i>
5-3-90	R	*Ray, SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.A.S.B. <i>University College of Science, 92, Upper Circular Road, Calcutta.</i>
5-11-28	L	Reinhart, WERNER, <i>Merchant c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.</i>
6-2-28	N	Reneman, NICO., Kian Gwan Co. (India), Ltd., Church Gate House, Church Gate Street, Fort, Bombay.
2-4-24	F	Richards, F. J., I.C.S. 6, Lexham Gardens, London, W. 8.
5-2-34	R	Richter, HERBERT, DR. JUR., <i>Vice-Consul for Germany. 3, Lansdowne Road, Calcutta.</i>
1-4-29	N	Rizvi, SYED HAMID HUSAIN, <i>Excise Sub-Inspector. Mohalla Sanechri, Near Masjid of Munshi Sk Ghassu, Saugor, C.P.</i>
3-12-24	L	Roerich, GEORGE NICHOLAS, M.A., M.R.A.S., <i>Orientalist. 310, Riverside Drive, New York, U.S.A. ("Urusvati" Nagar, Kulu, Punjab)</i>
2-7-28	L	Roerich, NICHOLAS, <i>Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter 310, Riverside Drive, New York, U.S.A.</i>
3-12-24	N	Rogers, T. E., <i>Tea Planter. The Tyroom Tea Co., Ltd., Kharikatia, Assam.</i>
4-12-01	F	*Ross, SIR EDWARD DENISON, KT., C.I.E., PH.D., F.A.S.B., <i>Director, School of Oriental Studies. Finsbury Circus, London, E.C. 2</i>
5-6-33	R	Rossetti, FELIX FRANCIS LEO, <i>Secretary, Y.M.C.A. 42, Corporation Street, Calcutta.</i>
6-12-26	R	Roy, A. K., <i>Barrister-at-Law, Advocate-General, Bengal. 3, Upper Wood Street, P.O. Theatre Road, Calcutta.</i>
1-12-30	N	Roy, KUMAR KAMALRANJAN, B.A., <i>Zemindar. Kashmir-bazar Post, Dt. Murshidabad.</i>
2-4-28	N	Roy, SUHRID KUMAR, B.SC., PH.D., F.G.S., <i>Professor of Geology, Indian School of Mines. Dhanbad.</i>
6-8-24	N	Roy-Chowdhury, BRAJENDRA KISHORE, <i>Zemindar. (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.</i>
7-5-28	N	*Saha, MEGH NAD, D.SC., F.R.S., F.A.S.B., <i>Professor of Physics, University of Allahabad. Katra, Allahabad.</i>
5-11-24	N	*Sahni, B., M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.A.S.B., <i>Professor of Botany The University, Lucknow.</i>
5-2-34	L	Sale, HAROLD MONTAGUE, M.A., F.G.S., <i>Geologist, Burmah Oil Co., Ltd. c/o Burmah Oil Co., Ltd., Digboi, Assam.</i>
3-12-24	R	Sarkar, C. K., C.E., <i>Engineer and Architect. 10, Hastings Street, Calcutta.</i>
3-3-09	R	Sarvadhikary, SIR DEVAPRASAD, KT., C.I.E., O.B.E., C.B.E., M.A., B.L., F.O.U., LL.D. (ABERDEEN), LL.D. (ST. ANDREWS), <i>Subiratna, Vidyaratnakar, Jnanasindhu. 20, Suri Lane, Entally, Calcutta.</i>
6-3-33	R	Seal, SATIS CHANDRA, M.A., B.L., <i>Honorary Secretary, Indian Research Institute. 55, Upper Chitpore Road, Calcutta.</i>

Date of Election.		
5-2-34	R	Selzam , EDWART VON, <i>German Diplomatic Service, Acting Consul-General for Germany.</i> 18, Store Road, Ballygunge, Calcutta.
1-4-25	R	Sen , BENOY CHANDRA, M.A. 'Rupeswar', Diamond Harbour Road, Behala.
3 12-24	R	Sen , H. K., M.A., D.SC. (LONDON), D.I.C., <i>Professor of Chemistry, University College of Science.</i> 92, Upper Circular Road, Calcutta.
5-12-23	L	Sen , LAKSHMAN, H.H. RAJA OF SUKET. Suket State, Punjab.
1-4-29	R	Sen-Gupta , NARES CHANDRA, M.A., D.L., <i>Advocate, High Court.</i> 36, Girish Mukherjee Road, Bhawanipore, Calcutta.
5-4-26	R	Senior-White , RONALD, F.F.S., F.R.S.T.M. & H., <i>Malariaologist.</i> 5, Godfrey Mansions, Garden Reach, Calcutta.
1-12-97	R	Seth , MESROB JACOB, M.R.A.S., M.S.A., F.R.S.A., <i>Examiner in Classical Armenian to the Calcutta University.</i> 9, Marsden Street, Upper Flat, Calcutta.
5-7-11	L	*Sewell , ROBERT BERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.A.S.B., LT.-COL., I.M.S., <i>Late Director, Zoological Survey of India.</i> 18, Barrow Road, Cambridge, England.
2-11-25	A	Sharif , MOHAMMAD, D.SC., F.R.M.S., F.L.S., <i>Lecturer in Zoology.</i> Muslim University, Aligarh.
6-5-29	N	Sharma , SRI RAM, M.A., M.R.A.S., M.A.O.S., <i>Professor of History.</i> D.A.V. College, Lahore.
2-5-23	N	Shebbeare , E. O., <i>Conservator of Forests.</i> Darjeeling.
6-1-09	N	Shirreff , ALEXANDER GRIERSON, B.A., I.C.S. <i>Collector, Jaunpur.</i> U.P.
4-1-26	N	Shortt , H. E., LT.-COL., I.M.S., <i>Director, King's Institute, Guindy.</i> Madras.
5-1-31	N	Shukla , JAGANNATH PRASAD. Trans Gomti Outram Road, near Badshahnagar Railway Station, Lucknow.
6-2-28	L	Shumser JUNG BAHADUR RANA. SIR KAISER, K.B.E., SUPRADIPTA MANYAVARA, LIEUT.-GENERAL, <i>Nepalese Army.</i> Kaiser Mahal, Kathmandu, Nepal.
5-2-02	N	Shyam Lal , LALA, M.A., LL.B. Nawabganj, Cawnpore, U.P.
4-11-29	R	Siddiqi , MOHAMMAD ZUBAYR, M.A., PH.D., <i>Sir Asutosh Professor of Islamic Culture, Calcutta University.</i> P. 274, Bright Street, Park Circus, Calcutta.
5-3-13	L	*Simonsen , JOHN LIONEL, D.SC., F.I.C., F.A.S.B. University College of North Wales, Bangor, North Wales.
6-2 18	N	Singh , MANYABARA BADA KAJI MARICHI MAN, PANDITJI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	F	Singh , JAIPAL, M.A. (<i>Modern Greeks</i>), <i>St. John's College, Oxford University.</i> Achimota College, Accra, West Africa.
5-3-34	L	Singh , HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR, K.C.I.E. Darbhanga.
2-1-33	N	Singh , RUDRA PERTAB, RAO BAHADUR, <i>Proprietor, Sonbarsa Raj.</i> Sonbarsa P.O., District Bhagalpore.
5-9-12	R	Singhi , BAHADUR SINGH. (Azimganj, Murshidabad.) 48, Gariahat Road, Calcutta.
7-8-33	N	Sinh , RAGHUBIR, RAJKUMAR, M.A., LL.B., <i>Heir-Apparent of Sitamau State.</i> Raghbir Niwas, Sitamau, C.I.
7-5-28	F	Sinha , LORD, OF RAIPUR. Queen Anne Mansions, St. James' Park London.

Date of Election.		
6-6-27	N	Sinha, SHEONANDAN PRASAD, M.B., <i>Assistant Surgeon. Government Hospital, Jamshedpur.</i>
6-2-28	R	Sinha, SUHRID CHANDRA, KUMAR, M.SC. 18, Ananda Lane, P.O. Shambazar, Calcutta.
4-1-26	N	Sinton, J. A., O.B.E., LT.-COL., I.M.S., V.C., <i>Officer-in-Charge, Malaria Bureau. Central Research Institute, Kasauli.</i>
5-7-16	L	Sircar, GANAPATI, VIDYARATNA. 69, Beliaghata Main Road, Calcutta.
5-3-24	N	Sircar, THE HON'BLE SIR NRIPENDRA NATH, KT., M.A., B.L., <i>Barriester-at-Law, Law Member, H.E. The Viceroy's Executive Council. New Delhi.</i>
5-3-24	R	Sircar, SIR NIL RATAN, KT., M.A., M.D., <i>Physician. 7, Short Street, Calcutta.</i>
7-11-32	N	Sitling, G. T. The Ong Press, Kalimpong, D.H. Ry.
1-3-26	R	Snalith, JOHN FRANK, <i>Managing Director, Messrs. Hamilton & Co. 8, Old Court House Street, Calcutta.</i>
5-8-29	R	Sommerfeld, ALFRED, <i>Merchant. c/o Mousell & Co., Mercantile Buildings, Lall Bazar, Calcutta</i>
3 9-34	R	Sondhi, VED PALL, M.SC., F.G.S., <i>Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.</i>
7-3-27	R	Stagg, M., LT.-COL., R.E., O.B.E., <i>Master, H.M.'s Mint. 47, Strand Road, Calcutta.</i>
7-3-23	F	Stamp, L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.
4-1 26	N	Stapleton, GRACE (MISS), M.D., B.S. (LONDON). <i>Government Caste and Gosha Hospital, Triplicane, Madras.</i>
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., I.E.S., F.A.S.B., <i>Late Director of Public Instruction, Bengal. St. Brelade, Jersey, C.I, England.</i>
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., <i>Educational Commissioner with the Government of India. New Delhi.</i>
6-5-25	R	Staub, MAX, <i>Consul for Switzerland. 100, Clive Street, Calcutta.</i>
1-11-22	R	Strickland-Anderson (Mrs.). 1, Alipur Park, Calcutta.
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., <i>Chief Medical Officer, E.B. Ry., late Vice-Chancellor, Calcutta University. 3, Suhrawardy Avenue, Park Circus, Calcutta.</i>
3-3-20	N	Sundararaj, BUNGURU, M.A., PH.D., <i>Director of Fisheries. Chepauk, Madras.</i>
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, <i>Major-General in the Nepalese Army. Singha Darbar, Kathmandu, Nepal.</i>
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT., MAHARAJA BAHADUR. "Tagore Castle", 12, Prasanna Coomar Tagore Street, Calcutta.
7-11-27	R	Tarkatirtha, BIMALANANDA, <i>Kaviraj, Punditbhusan, Byakaranatirtha. 90/3, Grey Street, Calcutta.</i>
31-8-93	L	Tate, GEORGE PASSMAN. 56, Cantonment, Bareilly, U.P.
2-5-32	R	Thakur, AMARSWAB, M.A., PH.D., <i>Lecturer, Calcutta University, Hon. Secretary, Sanskrit Publication Department, Metropolitan Printing and Publishing House. 56, Dhurumtollah Street, Calcutta.</i>
2-12-29	R	Thomas, H. W., F.C.S., M.P.S., <i>Senior Partner and Chair-man of the Managing Directors, Messrs Smith Stanistreet & Co. Stanistreet House, 18, Convent Road, Entally, Calcutta.</i>

Date of Election.		
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.A.S.B. "The Laurels", Glebe Road, Cambridge, England.
4-3-29	A	Travers, SIR WALTER LANCELOT, KT., C.I.E., O.B.E., M.L.C., Tea Planter, Baradighi Tea Estate. Baradighi P.O., B.D.R., Jalpaiguri
7-5-28	F	Tucci, GUISEPPE, PH.D., <i>Late Professor of Religions and Philosophy of India and the Far East, University of Rome ; Professor of Chinese, University of Naples.</i> Naples, Italy.
5-7-26	A	Tyson, JOHN DAWSON, C.B.E., M.A. (OXON), I.C.S., J.P., <i>Private Secretary to H.E. the Governor of Bengal.</i> Government House, Calcutta.
3-9-34	R	Uiser, M. E. M. M., <i>Consul General for Belgium.</i> 9, Pretoria Street, Calcutta.
6-8-28	N	Urchs, OSWALD, M.D. c/o Messrs Havero Trading Co., Ltd., Post Box 642, Bombay.
7-3-27	R	Urquhart, REV. W. S., M.A., D.D., D.LITT., <i>Principal, Scottish Church College, and Late Vice-Chancellor, Calcutta University.</i> 3 & 4, Cornwallis Square, Calcutta
4-7-27	N	Vance, R. L., M.B., B.C.H., B.A.O. (DUB.), L.M. (ROT.), MAJOR, I.M.S., <i>Officiating Chief Medical Officer, Western India States Agency.</i> Rajkot, Kathiawar.
5-2-34	R	Vasu, VISVA NATH. 8, Visvakosh Lane, Baghbazar, Calcutta.
7 8-33	R	Vedantatirtha, VANAMALI, M.A., <i>Formerly Professor, Cotton College, Gauhati.</i> 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.
6-6-32	R	Vere-Hodge, MRS. E. H., <i>Author.</i> 9/4, Middleton Row, Calcutta.
5-7-05	R	Vidyabhusana, AMULYA CHARAN 34, Rainratan Bose Lane, Shambazar, Calcutta.
1-2-32	R	Visser, DR. PH. C., <i>Consul-General for the Netherlands.</i> E-1, Clive Buildings, Clive Street, Calcutta.
6-3-01	L	*Vogel, JEAN PHILIPPE, LITT.D., F.A.S.B. Noordeindsplein, 4a, Lieden, Holland.
27-9-94	L	Vost, WILLIAM, LT.-COL., I.M.S. Leicester Lodge, 1, Medina Villas, Hove, Sussex, England.
6-5-25	R	*Wadia, D. N., M.A., B.SC., F.R.G.S., F.G.S., F.A.S.B., <i>Geological Survey of India.</i> 27, Chowringhee, Calcutta.
5-3-28	N	Waight, HARRY GEORGE, B.A. (OXON. and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge.</i> Burdwan.
2-5-27	A	Watson, SIR ALFRED HENRY, KT., <i>Late Editor, The "Statesman",</i> Calcutta. England.
2-2-31	A	Wauchope, R. S., O.B.E., A.I.O.F., F.R.A.I., MAJOR, I.A. 8, Park Chambers, 93, Park Street, Calcutta.
6-2-33	N	Wellsted, THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., <i>Mining Engineer.</i> Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	R	West, WILLIAM DIXON, M.A. (CANTAB.), <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
1-11-26	R	Westcott, FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), <i>Bishop of Calcutta and Metropolitan of India, Burma and Ceylon,</i> Bishop's House, 51, Chowringhee, Calcutta.

Date of Election.		
3-12-34	R	Weston, ARTHUR TOM, M.SC. (VICT.), M.INST.C.E., M.I.E. (IND.), <i>Director of Industries, Bengal.</i> United Service Club, Calcutta.
19-9-06	L	*Whitehead, RICHARD BERTRAM, F.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams, HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMP.), <i>Chaplain of Barrackpore.</i> Barrackpore.
6-2-28	F	Williams, T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts., England.
5-2-34	N	Williamson, FREDERICK, I.C.S., <i>Political Officer in Sikkim.</i> Gangtok, Sikkim.
3-2-34	R	Wilson, HARRY ELLIS CHASLER, M.B., CH.B., D.S., <i>Professor of Biochemistry and Nutrition, All-India Institute of Hygiene and Public Health.</i> U.S. Club, Calcutta.
7 3-06	L	*Woolner, ALFRED COOPER, C.I.E., M.A., D.LITT. (Hon.), F.A.S.B., <i>Vice Chancellor, Punjab University.</i> 53, Lawrence Road, Lahore.
1-4-08	R	Wordsworth, WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.). c/o The "Statesman", Chowringhee Square, Calcutta.
7-3 27	N	Wright, FREDERIC MAITLAND, <i>Broker.</i> Post Box No. 72, Bombay.
5-2-19	N	*Yazdani, GHULAM, M.A., F.A.S.B., <i>Epigraphist to the Government of India for Persian and Arabic Inscriptions,</i>

ORDINARY MEMBERS.

(Chronological.)

1884.				1905.			
Nov.	5.	Middlemiss, C. S.		July	5.	Vidyabhusana, A. C.	
1887.				Aug.	2.	McCay, D.	
Aug.	25.	Criper, W. R.		1906.			
1888.				Jan.	3.	Chapman, J. A.	30
June	6.	Pennell, A. P.		Mar.	7.	Nahar, P. C.	
1889.				"	"	Woolner, A. C.	
Mar.	6.	La Touche, T. H. D.		Sept.	19.	Whitehead, R. B.	
1890.				Oct.	31.	Finlow, R. S.	
5 Mar.	5.	Ray, Sir Prafulla C.		1907.			
				July	3.	Brown, J. C.	35
				"	"	Christie, W. A. K.	
1892.				1908.			
Jan.	11.	MacLagan, Sir Edward D.		Jan.	1.	Brahmachari, Sir U. N.	
Feb.	1.	Bodding, P. O.		April	1.	Wordsworth, W. C.	
1893.				Nov.	4.	Bhattacharji, B.	
Aug.	31.	Tate, G. Passman		1909.			
1894.				Jan.	6.	Shirreff, A. G.	40
Sept.	27.	Vost, W.		Mar.	3.	Chakravarti, N.	
1895.				"	"	Sarvadhikary, Sir D. P.	
10 Mar.	6.	Rose, Sir Jagadis C.		April	7.	Bentley, C. A.	
July	3.	Beatson-Bell, Sir Nicholas D.		July	7.	Razaz, R. K.	
Sept.	19.	De, K. C.		Oct.	6.	Brown, P.	45
1896.				"	"	Bruhl, P.	
Jan.	8.	Burn, Sir Richard		"	"	Gangoli, O. C.	
1897.				Nov.	3.	Christophers, Sir S. R.	
Dec.	1.	Seth, M. J.		1910.			
1898.				May	4.	Dhavlé, S. B.	
15 Jan.	5.	Dods, W. K.		"	"	Kemp, S. W.	50
April	6.	Tagore, Sir Pradyot C.		Sept.	7.	Gravelly, F. H.	
May	4.	Mookerjee, Sir R. N.					
1900.				1911.			
Dec.	5.	Grieve, J. W. A.		Feb.	1.	Insch, J.	
				"	"	Law, N. N.	
1901.				Mar.	1.	Mahtab, Sir Bijay Chand	
Mar.	6.	Habib-ur-Rahman.		May	3.	Lomax, C. E.	55
20 "	"	Vogel, J. P.		June	7.	Chatterjee, K. K.	
June	5.	Mann, H. H.		"	"	Hosain, M. H.	
Dec.	4.	Ross, Sir Edward D.		July	5.	Sewell, R. B. S.	
1902.				Nov.	1.	Ahmed, K.	
Feb.	5.	Shyam Lal.					
July	2.	Doxey, F.		1912.			
1904.				May	1.	Harley, A. H.	60
25 June	1.	Tipper, G. H.		June	5.	Misra, C.	
Aug.	3.	Fermor, L. L.		July	3.	Andrews, E. A.	
"	"	Stapleton, H. E.		Sept.	4.	Ghosh, T.	
				"	"	Singhi, B. S.	

1913.		
65	Mar.	5. Simonsen, J. L.
	April	2. Calder, C. C.
	June	4. Majumdar, R. C.
	Nov.	5. Fox, C. S.
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1914.		
	Mar.	4. Bacot, J.
70	April	1. Chaudhuri, G. D.
	July	1. Law, S. C.
	Aug.	5. Law, B. C.
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1915.		
	April	7. Ohtani, Count K.
	Aug.	4. Gurner, C. W.
75	Sept.	1. Cleghorn, M. L. W.
	Oct.	27. Chatterjee, Sir A. C.
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1916.		
	Feb.	2. Majumdar, N. K.
	June	7. Mahajan, S. P.
	July	5. Sarkar, G.
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1917.		
80	April	4. Awati, P. R.
	"	" Aiyangar, K. V. R.
	Aug.	1. Bhandarkar, D. R.
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1918.		
	Feb	6. Banerji, N. N.
85	"	" Manen, Johan van
	"	" Singh, B. M.
	April	3. Prashad, B.
	Aug.	7. Maitra, J. N.
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1919.		
	Feb.	5. Yazdani, G.
	Mar.	5. Gupta, S. P.
90	April	2. Friel, R.
	Nov.	5. Hemraj, R.
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1920.		
	Mar.	3. Mahalanobis, P. C.
	"	" Sundara Raj, B.
	June	2. Suhrawardy, Sir H
95	"	" Majumdar, N. G.
	July	7. Knowles, R.
	Aug.	4. Dikshit, K. N.
	Sept.	1. Chakladar, H. C.
	"	" Chanda, R. P.
100	"	" Chatterjee, N. C.
	Dec.	" Akbar Khan, Sir M.
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1921.		
	Jan.	5. Ray, J. N.
	Feb	2. Jain, Chhote Lal
	"	2. Mukerjee, R. P.
105	"	" Mookerjee, S. C.
	Mar.	2. Acton, H. W.
	"	" Agharkar, S. P.

June	1.	Muzamilullah Khan, Sir Mohammad	
Sept.	7.	Ray, H. C.	
Nov.	2	Hora, S. L.	110
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1922.			
Feb.	1.	Bhattacharya, V. S.	
"	"	Chopra, R. N.	
"	"	Raman, Sir C. V.	
April	5.	Abdul Ali, A. F. M.	
June	5.	Bhattacharya, S. P.	115
Sept.	6.	Das-Gupta, S. N.	
Nov.	1.	Strickland-Anderson, Mrs.	
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1923			
Mar.	7.	Labey, G. T.	
"	"	Stamp, L. D.	
May	2.	Shebbeare, E. O.	120
June	6.	Howard, Sir A.	
"	"	Hutton, J. H.	
Aug.	1.	Biswas, K. P.	
Dec.	5.	Chopra, B. N.	
"	"	Barwell, N. F.	125
"	"	Jackson, P. S.	
"	"	Sen, H. H. Lakshman	
"	"	Pande, S. B.	
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1924			
Feb	6.	Mahindra, K. C.	
Mar.	5.	Banerjee, P. N.	130
"	"	Kanjulal M. N.	
"	"	Mukerji, S.	
"	"	Mitter, Sir B. L.	
"	"	Mitter, D. N.	
"	"	McPherson, J.	135
"	"	Sircar, Sir N. N.	
"	"	Sircar, Sir N. R.	
April	2.	Bahl, K. N.	
"	"	Ghose, K.	
"	"	Judah, N. J.	140
"	"	Richards, F. J.	
"	"	Haq, M. M.	
"	"	Mitra, J. C.	
May	7.	Bhattacharya, B.	
July	2.	Ray, A. C	145
"	"	Mookerjee, S. P.	
Aug.	6.	Chatterji, S. K.	
"	"	Moloney, W. J.	
"	"	Roy-Chowdhury, B. K.	
"	"	Davies, L. M.	150
Nov.	5.	Chattopadhyay, K. P.	
"	"	Sahni, B.	
"	"	Mookerji, B. N.	
Dec.	3.	Das, S. N.	
"	"	Newman, Chas. F.	155
"	"	Pushong, E. S.	
"	"	Rogers, T. E.	
"	"	Basu, J. N.	
"	"	Ghose, S. C.	

160	Dec. 3.	Sarkar, C. K.
	" "	Roerich, G. N.
	" "	Sen, H. K.
	" "	Khan, R. R.
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	1925.	
	Feb. 4.	Guha, B. S.
165	Mar. 4.	Benthall, Sir E. C.
	" "	Das, A. N.
	" "	Deb, Kshitindra
	April 1.	Perier, F.
	" "	Hobbs, H.
170	" "	Laden La, S. W.
	" "	Sen, B. C.
	May 6.	Jatia, Sir O. M.
	" "	Khanna, V. L.
	" "	Koester, Hans
175	" "	Staub, Max.
	" "	Wadia, D. N.
	June 3.	Datta, S. K.
	July 6	Bose, M. M.
	Aug. 3.	Coyajee, Sir J. C.
180	" "	Pruthi, H. S.
	Nov. 2.	Acharya, P.
	" "	Chattopadhyaya, K. C.
	" "	Crookshank, H.
	" "	Kimura, R.
185	" "	Sharif, M.
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	1926.	
	Jan. 4.	Fleming, Andrew
	" "	Ghaffar, Abdul
	" "	Hubert, Otto
	" "	Shortt, H. E.
190	" "	Sinton, J. A.
	" "	Stapleton, G. (Miss)
	Feb. 1.	Rao, Y. R.
	" "	Ghuznavi, Sir A. K.
	" "	Hingston, H.
195	" "	Harris, H. G.
	" "	Ghuznavi, A. H.
	" "	Khambata, R. B.
	Mar. 1.	McKay, J. W.
	" "	Snaith, J. F.
200	" "	Mukherjee, A. N.
	" "	Datta, H. N.
	" "	Basu, N. K.
	" "	Kramrisch, Stella
	" "	Bagnall, J. F.
205	April 5.	Senior-White, R.
	" "	Ghose, B. C.
	" "	Parker, R. H.
	" "	Bhatia, M. L.
	" "	Mitter, K. N.
210	" "	Jones, T.
	June 7.	Lemmon, R. D.
	July 5.	Mukhopadhyaya, P. K.
	" "	Tyson, J. D.
	" "	Lyne, H. W.

Aug. 2.	Mukherjee, J. N.	215
" "	Khettry, B.	
Nov. 1.	Jameson, T. B.	
" "	Modi, J. R. K.	
" "	Westcott, F.	
" "	Barhut, T. K.	220
" "	Ramanujaswami, P. V.	
" "	Mills, J. P.	
" "	Galstaun, S.	
" "	Chokhani, S.	
" "	Bagchi, P. C.	225
Dec. 6.	Aiyangar, S. K.	
" "	Guha, S. N.	
" "	Roy, A. K.	
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	1927.	
Jan. 3.	Chakravarty, N.	
" "	Bivar, H. G. S.	230
Feb. 7.	Chatterjee, A.	
" "	Captain, D. M.	
Mar. 7.	Hopkinson, A. J.	
" "	Urquhart, W. S.	
" "	Bake, A. A.	235
" "	Stagg, M.	
" "	Ghosh, P. N.	
" "	Abdul Kadir, A. F. M.	
" "	Fukushima, N.	
" "	Wright, F. M.	240
April 4.	Dewick, E. C.	
May 2.	Watson, Sir A. H.	
June 6.	Nandi, Maharaja S. C.	
" "	Jain, R.	
" "	Sinha, S. P.	245
July 4.	Chatterjee, P. P.	
" "	Chakravarti, C.	
" "	Vance, R. L.	
Nov. 7.	Tarkatirtha, B.	
" "	Mukherji, D.	250
" "	Brahmachary, S. C.	
Dec. 5.	Namgyal, H.H. Sir Tashi	
" "	Dechhen, H.H. Kun- zang	
" "	Chowdhury, Sir C.	
" "	Mukerjee, S. K.	255
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	1928.	
Jan. 2.	Basu, N. M.	
" "	Mello, F. de	
Feb. 6.	Sinha, S. C.	
" "	Kewal, G. S.	
" "	Ezra, Sir D.	260
" "	Roneman, Nico	
" "	Mukerji, Sir M. N.	
" "	Rai, L. N.	
" "	Williams, T. T.	
" "	Shumsher, Sir Kaiser	265
Mar. 5.	Waight, H. G.	
" "	Gooptu, D. N.	
" "	Neogi, P.	

	Mar.	5.	Biswas, C. C.		Nov.	4.	Jarvis, R. Y.	
270	"	"	Eberl, Otto		"	"	Edwards, L. B.	
	April	2.	Roy, S. K.		"	"	Siddiqi, M. Z.	
	"	"	Mullick, K. C.		"	"	Mallya, B. G.	330
	"	"	Bhattacharyya, N. C.		Dec.	2.	Fisher, F. B.	
	"	"	Kumar, K. K.		"	"	Khan, M. R.	
275	"	"	Chowdhury, Rai J. N.		"	"	Fawcus, L. R.	
	"	"	Harris, L. E.		"	"	Thomas, H. W.	
	"	"	Mookerjee, B.					
	May	7.	Chatterji, K. N.					
	"	"	Chatterjee, Sir N. R.		1930.			
280	"	"	Tucci, G.		Jan.	6.	Jain, N. K.	335
	"	"	Murray, E. F. O.		"	"	Haldar, S. K.	
	"	"	Gupta, J. N.		"	"	Bassewitz, Count	
	"	"	Basu, N.		"	"	Hamilton, Sir D. M.	
	"	"	Ghosal, U. N.		"	"	Martin, M. F. C.	
285	"	"	Mallik, S. C.		"	"	Chakraverti, S. C.	340
	"	"	Lord Sinha of Raipur		Feb	3.	Henderson, A. G.	
	"	"	Saha, M. N.		"	"	Mahtab, U. C.	
	June	4.	Bhadra, S. N.		"	"	Korni, M. A.	
	"	"	Hobart, R. C.		"	"	Pettigrew, W.	
290	"	"	Bhattachali, N. K.		"	"	Chakravarti, M. N.	345
	July	2.	Roorich, N.		Mar.	3.	Mukharji, I. C.	
	"	"	Das, P. K.		"	"	Ashton, H. S.	
	Aug.	6.	Jaitly, P. I.		April	7.	Pessein, J. F.	
	"	"	Urchs, O.		"	"	Ahmad, S. K.	
295	"	"	Ghuznavi, I. S. K.		May	5.	Deo, Sir P. C. Bhanj	350
	"	"	Heron, A. M.		"	"	Matthias, O. G.	
	Nov	5.	Olpadvala, E. S.		"	"	Mallam, G. L.	
	"	"	Bose Mullick, G. N.		"	"	Cooper, G. A. P.	
	"	"	Chopra, G.		June	2.	Kenny, D. E. C.	
300	"	"	Statham, R. M.		July	7.	Mahudavala, J. J.	355
	"	"	Reinhart, W.		Nov.	3.	Austin, G. J.	
	"	"	Galstaun, J. C.		"	"	Rahman, S. K.	
					Nov.	3.	Newman, C. D.	
					Dec.	1.	Roy, K. K.	
1929.								
	Jan.	7.	Basu, S. C.		1931.			
	"	"	Ghose, M. C.		Jan.	5.	Fooks, H. A.	360
305	Feb.	4.	Narain, Hirde		"	"	Shukla, J. P.	
	"	"	Jenkins, W. A.		"	"	Chatterji, D.	
	Mar.	4.	Travers, Sir W. L.		"	"	Evans, P.	
	"	"	Mitter, H. K.		Feb.	2.	Wauchope, R. S.	
	"	"	De, J. C.		"	"	Douglas, G. W.	365
310	"	"	Basu, B. K.		"	"	Clough, J.	
	"	"	Lunan, A. G.		Mar.	2.	Bose, S. K.	
	"	"	Mullick, P. N.		April	6.	Bhose, J. C.	
	April	1.	Ghose, D. P.		"	"	Prasad, S.	
	"	"	Rizvi, S. H. H.		May	4.	Bottomley, J. M.	370
315	"	"	Sen-Gupta, N. C.		June	1.	Lort-Williams, J.	
	May	6.	Sharma, S. R.		Aug.	3.	Barua, K. L.	
	"	"	Williams, H. F. F.		Dec.	7.	Eliade, M.	
	"	"	Pawsey, C. R.					
	July	1.	Dunn, J. A.		1932.			
320	Aug.	5.	Sommerfeld, A.		Feb.	1.	Holme, J. W.	
	Nov.	4.	Berthoud, G. F.		"	"	Visser, Ph. C.	375
	"	"	Singh, J.		"	"	Clendenin, D. L.	
	"	"	Mitra, M. N.		Mar.	7.	Hughes, A.	
	"	"	Cotter, G. de P.		"	"	Chakraborty, K. B.	
325	"	"	Campbell, G. R.		"	"	Darbari, M. D.	
	"	"	Parry, N. E.					

380	May 2.	Thakur, A.	Feb. 5.	Kirby, W.	410
	" "	Muhammad, M.	" "	Law, B. O.	
	June 6.	Vere-Hodge, Mrs. E. H.	" "	Nariman, R. K.	
	Nov. 7.	Suvarna Shumser	" "	Pasricha, C. L.	
385	" "	Driver, D. C.	" "	Percival, F. G.	
	" "	Sitling, G. T.	" "	Richter, H.	415
	Dec. 5.	Dutt, N.	" "	Sale, H. M.	
	" "	Boyle, C. A.	" "	Selzam, E. von	
	" "	Del, S. K.	" "	Vasu, V. N.	
			" "	Williamson, F.	
	1933.		Mar. 5	Craddock, Sir W. M.	420
	Jan. 2.	George, J.	" "	Modi, J. J. J.	
390	" "	Dutch, R. A.	" "	Singh, H. H. Sir K.	
	" "	Singh, R. P.	May 7	Bent, W. A.	
	Feb. 6.	Wellsted, T. A.	" "	Duncan, P. C.	
	" "	Ghatak, J. C.	Jun. 4	Chatterji, B. R.	425
	" "	West, W. D.	" "	Daver, N. S.	
395	Mar. 6.	Seal, S. C.	Aug. 6	Husain, S. A.	
	June 5.	Morris, C. J.	" "	Mullick, M. L.	
	" "	Chakravarti, S. K.	" "	Rao, U. S.	
	" "	Rossetti, F. F. L.	" "	Ray, K.	430
	July 3.	Dutt, G. S.	Sep. 3	Anden, J. B.	
400	Aug. 7.	Sinh, Raghubir	" "	Krishnan, K. S.	
	" "	Vedantatirtha, V.	" "	Ledrus, M.	
	Nov. 6.	Kavyatirtha, R. D.	" "	Ow - Wachendorf,	
	" "	Krishnan, M. S.	" "	Baron W.	
	" "	Coulson, A. L.	" "	Sondhi, V. P.	435
405	" "	Hertz, Miss Gerta	" "	Ulser, M. E. M. M.	
			Nov. 5	Gee, E. R.	
			" "	Hosain, Prince	
	1934.		" "	A. M. M. M. A.	
	Jan. 1.	Ahmad, M. J.	Dec. 3	Burt, B. C.	
	Feb. 5.	Bates, W. H.	" "	Gladstone, J.	440
	" "	Bhuyan, S. K.	" "	Weston, A. T.	
	" "	Halidar, B. V.	" "	Wilson, H. E. C.	

LIFE MEMBERS.

(Chronological.)

5-11-84	C. S. Middlemiss (30 N.).	5- 7-11	R. B. S. Sewell (28 N.).	
6- 6-88	A. P. Pennell (88 F.).	1-11-11	Kamaluddin Ahmad (24 N.).	30
6- 3-89	T. H. D. La Touche (10 N.).	5- 3-13	J. L. Simonsen (19 N.).	
11- 1-93	Sir Edward D. MacLagan (94 R.).	4- 3-14	J. Bacot (14 F.).	
5 1- 2-93	P. O. Bodding (14 N.).	5- 8-14	B. C. Law (33 R.).	
31- 7-93	G. P. Tate (23 N.).	5- 7-16	G. Siroar (29 N.).	
27- 9-94	W. Vost (94 F.).	6- 2-18	Johan van Manen (25 R.).	35
3- 7-95	Sir Nicholas D. Beatson-Bell (95 N.).	3- 4-18	B. Prashad (29 R.).	
19- 9-95	K. C. De (26 R.).	2-11-21	S. L. Hora (30 N.).	
10 3- 5-98	Sir R. N. Mookerjee (29 R.).	6- 6-23	A. Howard (30 N.).	
5-12-00	J. W. A. Grieve (00 F.).	5-12-23	H. H. Lakshman Sen (24 N.).	
6- 2-01	J. Ph. Vogel (25 F.).	7- 5-24	B. Bhattacharya (24 N.).	40
2- 7-02	F. Doxey (28 R.).	6- 8-24	L. M. Davies (24 N.).	
1- 6-04	G. H. Tipper (27 N.).	3-12-24	G. Roerich (28 F.).	
15 28- 9-04	H. E. Stapleton (26 R.).	6- 6-27	B. D. Jain (28 R.).	
2- 8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
3- 1-06	J. A. Chapman (28 N.).	5-12-27	H. H. Sir Tashi Nam- gyal (27 N.).	45
7- 3-06	A. C. Woolner (28 N.).	5-12-27	H. H. Kunzang Dech- hen (27 N.).	
19- 7-06	R. B. Whitehead (26 N.).	6- 2-28	Sir D. Ezra (28 R.).	
20 3- 7-07	J. Coggin Brown (28 N.).	6- 2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	
3- 7-07	W. A. K. Christie (29 N.).	2- 7-28	N. Roerich (28 F.).	
1- 1-08	Sir U. N. Brahma- chari (27 R.).	5-11-28	W. Reinhart (28 F.).	50
7- 4-09	C. A. Bentley (30 N.).	4-11-29	G. de P. Cotter (32 N.).	
6-10-09	P. J. Brühl (28 N.).	3- 3-30	H. S. Ashton (30 N.).	
25 4- 5-10	S. B. Dhavle (10 N.).	5- 1-31	P. Evans (31 N.).	
4- 5-10	S. W. Kemp (29 F.).	7-11-32	Suvarna Shumser Jung Bahadur Rana (32 N.).	
1- 2-11	James Insch (28 R.).	6- 2-33	J. C. Ghatak (33 R.).	55
7- 6-11	M. Hidayat Hosain (27 N.).	5- 2-34	H. M. Sale (34 N.).	
		5- 3-34	H. H. Sir K. Singh (34 N.).	

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election	(Science.)
15-1-34	BARON ERNEST RUTHERFORD OF NELSON, O.M., President, Royal Society, London.
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secrétaire Perpetuel, Académie des Sciences, Paris.
15-1-34	SIR SYDNEY BURRELL, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. HENRY FAIRFIELD OSBORN, SC.D., LL.D., 15, West, 77 Street, New York City, U.S.A.
15-1-34	DR. SIR SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, KT., c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London.
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhushvej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMRONG RAJANUBHAB OF SIAM, Siam.

ASSOCIATE MEMBERS.

Date of Election	
7-12-10	† H. HOSTEN, REV., S.J., 8, Chaussée de Haecht, Bruxelles, Belgium
1-2-22	* PIERRE JOHANNIS, REV., S.J., B.LITT. (OXON), <i>Professor of Philosophy</i> , St. Xavier's College, 30, Park Street, Calcutta.
1-2-22	* ANANTAKRISHNA NASTRI, MAHAMAHOPADHYAYA, <i>VEDANTA-VISARADA, Lecturer in Sanskrit, Calcutta University</i> , 32, College Square, Calcutta.
2-5-27	* N. N. VASU, RAI SAHIB, 20, Visvakosh Lane, Baghbazar, Calcutta.
2-12-29	† SARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor, 'Man in India'</i> , Church Road, Ranchi.
1-1-34	L. BOGDANOV, Flat 8-B, Solomon Mansions, 7, Royd Street, Calcutta.

* Re-elected for a further period of five years on 7-3-1932 under Rule 2c.

† Re-elected for a further period of five years on 1-1-1934 under Rule 2c.

INSTITUTIONAL MEMBERS.

Date of Election.		
28-10-29	The Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland	
2-12-29	The Adyar Library, Adyar, Madras S.	
4-5-31	The Benares Hindu University Library, Benares.	
1-6-31	The Ohtani University Library, Kyoto, Japan.	
7-12-31	The Annamalai University Library, Annamalainagar, Chidambaram, S. India.	5
30-10-33	The Allahabad University Library, Allahabad.	
30-4-34	The Bombay University Library, Bombay.	

ORDINARY FELLOWS.

Date of Election.		
2-2-10	T. H. D. La Touche, B.A., F.G.S.	
2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.S.C.	
2-2-10	Sir E. D. Ross, KT., C.I.E., PH.D.	
7-2-12	Sir J. C. Bose, KT., C.S.I., C.I.E., M.A., D.S.C., F.R.S.	
7-2-12	P. J. Brühl, I.S.O., F.G.S., PH.D., F.C.S.	5
7-2-12	Sir Samuel R. Christophers, KT., C.I.E., O.B.E., I.M.S., F.R.S.	
7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.	
5-2-13	J. Ph. Vogel, PH.D., LITT.D.	
5-2-13	S. W. Kemp, B.A., D.S.C., F.R.S.	
3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.	10
2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S.	
2-2-16	L. L. Fermor, O.B.E., A.R.S.M., D.S.C., F.G.S., M.INST.M.M., F.R.S.	
7-2-17	F. H. Gravely, D.S.C.	
6-2-18	J. L. Simonsen, D.S.C., F.I.C., F.R.S.	
6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.	15
5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.	
5-2-19	W. A. K. Christie, B.S.C., PH.D., M.INST.M.M.	
5-2-19	D. R. Bhandarkar, M.A., PH.D.	
5-2-19	R. B. Seymour Sewell, C.I.E., M.A., SC.D., M.R.C.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., I.M.S.	
2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F.	20
1-2-22	Ramaprasad Chanda, B.A.	
4-2-25	M. Hidayat Hosain, PH.D.	
4-2-25	Sir C. V. Raman, KT., M.A., D.S.C., PH.D., LL.D., F.R.S.	
1-2-26	P. O. Bodding, M.A.	
7-2-27	R. Knowles, B.A., M.R.C.S., L.R.C.P., I.M.S.	25
7-2-27	Johan van Manen, C.I.E.	
7-2-27	B. Sahni, D.S.C.	
7-2-27	A. C. Woolner, C.I.E., M.A., D.LITT.	
6-2-28	H. E. Stapleton, M.A., B.S.C., I.E.S.	
6-2-28	B. Prashad, D.S.C., F.Z.S., F.R.S.E.	30
6-2-28	C. A. Bentley, C.I.E., M.B., D.F.H., D.T.M. & H.	
4-2-29	Sir Albert Howard, KT., C.I.E., M.A.	
4-2-29	J. H. Hutton, C.I.E., M.A., D.S.C., I.C.S.	
4-2-29	Sir Edward D. MacLagan, K.C.S.I., K.C.I.E.	
3-2-30	H. W. Acton, C.I.E., M.R.C.S., L.R.C.P., I.M.S.	35
3-2-30	G. de P. Cotter, B.A., SC.D., M.INST.M.M., F.G.S.	
3-2-30	S. L. Hora, D.S.C., F.Z.S., F.R.S.E.	
3-2-30	J. P. Mills, I.C.S., M.A., J.P.	

Date of Election		
3-2-30	Meghnad Saha, D.Sc., F.R.S.	
2-2-31	S. Krishnaswami Aiyangar, M.A., Ph.D., F.R.HIST.S.	40
2-2-31	R. N. Chopra, C.I.E., M.A., M.B., I.M.S.	
2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).	
1-2-32	J. Bacot.	
6-2-33	Percy Brown, A.R.C.A.	
6-2-33	Ordhendra Coomar Gangoly, B.A.	45
6-2-33	Ghulam Yazdani, M.A.	
5-2-34	D. N. Wadia, M.A., B.Sc., F.R.G.S., F.G.S.	

HONORARY FELLOWS

Date of Election.		
5-2-96	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.	
2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.C.I.E., O.M., Ph.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberley, Surrey, England.	
6-9-11	KAMAKHYANATH TARKAVAGISA, MAHAMAHOPADHYAYA. 111/4, Shambazar Street, Calcutta.	
5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.SC., LL.D., Ph.D., F.R.S. Trinity College, Cambridge, England.	
5 6-12-16	G. A. BOULENGER, F.R.S., LL.D. Jardin Botanique du L'Etat, Brussels.	
2-5-17	HERBERT ALLEN GILES, M.A., LL.D., D.LITT., <i>Professor</i> . 10, Selwyn Gardens, Cambridge, England.	
4-2-20	SYLVAIN LEVI, D.LITT. Collège de France, rue Guy-de-la-Brosse 9, Paris, Ve.	
4-2-20	SIR AUREL STEIN, K.C.I.E., Ph.D., D.LITT., D.SC., D.O.L., F.B.A. c/o Indian Institute, Oxford, England.	
4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVIe.	
10 4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S. Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2.	
4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.	
4-2-20	SIR DAVID PRAIN, KT., C.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.L.S., F.R.S., F.Z.S., M.R.I.A. Royal Botanic Gardens, Kew, Surrey, England.	
4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.SC., LL.D., D.O.L., F.R.S., F.R.A.S. St John's College, Cambridge, England.	
4-2-20	SIR JAMES FRAZER, KT., D.O.L., LL.D., D.LITT. Trinity College, Cambridge.	
15 4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.	
2-3-21	F. W. THOMAS, C.I.E., M.A., Ph.D., <i>Boden Professor of Sanskrit, University of Oxford</i> . 161, Woodstock Road, Oxford, England.	
7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.SC., F.R.S. <i>Principal</i> , University of Edinburgh, Blackford Brae, Edinburgh.	
7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.	
7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.	
20 7-3-27	RT. HON'BLE THE EARL OF LYTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.	

Date of Election	
4-7-27	C. SNOUX HURGRONJE. Rapenburg 61, Leiden, Holland.
5-12-27	LT.-COL. SIR T. WOLSELEY HAIG, K.C.I.E., C.S.I., C.B.E., M.A., C.M.G. 34, Gledstanee Road, West Kensington, London, W. 14.
2-12-29	SIR RAJENDRA NATH MOOKERJEE, K.C.I.E., K.C.V.O. 7, Harington Street, Calcutta.
2-12-29	DR. CHARLES J. H. NICOLLE, <i>Director</i> . Pasteur Institute, Tunis.
5-5-30	DR. R. ROBINSON, D.SC., F.R.S. The Dyson Perrins Laboratory, 25 South Parks Road, Oxford, England.
5-5-30	DR. H. JACOBI, C.I.E. (HON.), 59, Niebuhrstrasse, Bonn, Germany.

CHANGES IN MEMBERSHIP.

LOSS OF MEMBERS DURING 1934.

BY RETIREMENT.

Ordinary Members.

1. C. A. J. Hendry. (1924.)
2. Sir Z. R. Z. Suhrawardy. (1927.)
3. J. G. Drummond. (1928.)
4. Mohd. Musa. (1925.)
5. P. K. Kurup. (1929.)
6. A. C. De. (1932.)
7. S. M. Sidiq. (1925.)
8. T. L. Martin. (1924.)
9. J. N. Mookerjee. (1924.)
10. I. M. Puri. (1928.)
11. H. M. Bose. (1925.)

BY DEATH.

Ordinary Members.

1. Sir C. C. Ghose. (1924.)
2. Kumar M. N. Mitter. (1906.)
3. Ekendra Nath Ghosh. (1918.)
4. Shiv Ram Kashyap. (1926.)
5. Sir P. C. Mitter. (1924.)

Associate Member.

1. MM. Kamal Krishna Smrititirtha. (1924.)

UNDER RULE 38.

1. J. C. Bose. (1922.)
2. M. S. Mani. (1929.)
3. N. L. Kothari. (1931.)
4. M. H. Moledina. (1928.)
5. H. K. Deb. (1917.)
6. S. L. Kapur. (1924.)
7. V. N. Swami. (1930.)
8. M. A. Abbasi. (1925.)

UNDER RULE 40.

1. Sir E. Pascoe. (1919.)
2. Sir P. Ginwala. (1929.)
3. S. A. Skinner. (1920.)
4. G. F. Rose. (1924.)
5. Sir F. P. Connor. (1920.)
6. G. E. Pilgrim. (1904.)
7. Sir A. M. Stow. (1923.)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
 1895 Yati Bhusana Bhaduri.
 1896 Jnan Saran Chakravarti.
 1897 Sarasi Lal Sarkar.
 1901 Sarasi Lal Sarkar.
 1904 { Sarasi Lal Sarkar.
 Surendra Nath Maitra.
 1907 Akshoy Kumar Mazumdar.
 1911 { Jitendra Nath Rakshit.
 Jatindra Mohan Datta.
 Rasik Lal Datta.
 1913 { Saradakanta Ganguly.
 Nagendra Chandra Nag.
 Nilratan Dhar.
 1918 Bibhutibhushan Dutta.
 1919 Jnanendra Chandra Ghosh.
 1922 Abani Bhusan Datta.
 1923 Bhailal M. Amin.
 1926 Bidhu Bhusan Ray.
 1927 Kalipada Biswas.
 1931 T. C. N. Singh.
 1932 P. N. Das-Gupta.
 1933 Nirmal Kumar Sen.
 1934 D. P. Roy Chowdhury.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
 1903 Sir Ronald Ross, K.T., K.C.B., C.I.E., K.C.M.G., M.R.C.S.,
 F.R.C.S., D.P.H., LL.D., D.S.C., M.D., F.R.S.
 1905 D. D. Cunningham, C.I.E., F.R.S.
 1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
 1909 Sir David Prain, K.T., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
 F.L.S., F.Z.S., M.R.I.A., F.R.S.
 1911 Carl Diener.
 1913 William Glen Liston, C.I.E., M.D., D.P.H.
 1915 J. S. Gamble, C.I.E., M.A., F.R.S.
 1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
 1919 N. Annandale, C.I.E., D.S.C., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
 1921 Sir Leonard Rogers, K.T., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
 F.R.S.
 1923 Sir Samuel Christophers, C.I.E., O.B.E., F.R.S., F.A.S.B., M.B.,
 LT.-COL., I.M.S.
 1925 J. Stephenson, C.I.E., B.S.C., M.B., CH.B., F.R.S., F.R.C.S.,
 F.R.S.E., LT.-COL., I.M.S.
 1927 S. W. Kemp, B.A., D.S.C., F.R.S., F.A.S.B.
 1929 Sir Albert Howard, C.I.E., M.A., F.A.S.B.

- 1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.),
M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.A.S.B., F.R.S., LT.-COL.,
I.M.S.
1933 R. Row, O.B.E., D.SC.
-

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D.,
F.B.A., HON. F.A.S.B., I.C.S. (*retired*).
1930 Dr. Felix H. D'Herelle.
1932 Dr. C. Snouck Hurgronje.
1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A.,
M.D., PH.D., F.S.M.F., F.A.S.B.
-

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P., F.R.S.
1933 Dr. Eugène Dubois.
-

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
1932 Dr. Ernst J. O. Hartert, PH.D.
-

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
1934 Isaac Henry Burkill, M.A.

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1934.

JANUARY, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 1st, at 5-30 P.M.

PRESENT :

RAI UPENDRA NATH BRAHMACHARI BAHADUR, M.A., M.D., Ph.D., F.S.M.F., F.A.S.B., Medical Secretary, in the Chair.

Members :

Brown, Mr. Percy
Fawcus, Mr. L. R.
Hora, Dr. S. L.

Jenkins, Dr. W. A.
Kavyatirtha, Pt. R. D.
Manon, Mr. Johan van

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of six presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :-

(1) *Ahmad, Mian Jamal-Ud-Din*, B.A., B.T., Member, Bureau of Education, Afghanistan. 2. *Andrabi*, Kabul, Afghanistan.

Proposer : M. Mahfuz ul Haq.

Secunder : S. L. Hora.

(2) *Gill, D. P.*, M.B., Ch.B., F.R.S.E., Lt.-Col. I.M.S., Surgeon-General with the Government of Bengal, 245, Lower Circular Road, Calcutta.

Proposer : S. L. Hora.

Secunder : U. N. Brahmachari.

The General Secretary reported the following loss of membership since the previous meeting, by resignation :—

(17) V. V. Sohoni (An Ordinary Member, 1926).

The General Secretary reported that Mr. N. G. Majumdar who had resigned in 1931, had now regularised his position and had consequently been re-admitted as a member.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members, who had, since the last meeting, been suspended as defaulters within the Society's building, had now been removed as defaulters from the Society's registers for non-payment of dues :—

A. Mannan Baidil.
Sardar M. Rai B. Rai.
Raja Ram Chandra Dev.
Nawab Musharuff Hosain.
Sir M. Rathnaswami.
Shyamnandan Sahaya.
H. L. Chhibber.
Rev. B. A. Helland.

Syed Hasan Imam.
T. C. Raparia.
S. M. Afzal.
D. N. Majumdar.
W. B. S. Nyss.
S. C. Sanyal.
D. B. S. Sastri.
Budh Behari Lal.

In accordance with Rules 2 and 13, the Chairman called for a ballot for re-election, for a further period of five years, of—

1. Rev. H. Hosten, S.J.,
2. MM. K. K. Smrtitirtha,
3. Rai Bahadur S. C. Roy,

and for election of —

4. Mr. L. Bogdanov,

as Associate Members of the Society, proposed for election in the last Ordinary Monthly Meeting.

The Chairman announced the results of the ballots for the elections of Ordinary Members and Associate Members and declared all candidates duly elected.

The Chairman announced that the Annual Meeting of the Society would take place on Monday, the 5th February, 1934, and invited the members present to communicate to the General Secretary the names and addresses of non-members to whom they wished invitations to be issued.



FEBRUARY, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 5th, immediately after the termination of the Annual Meeting.

PRESENT :

L. L. FERMOR, Esq., O.B.E., D.Sc., A.R.S.M., M.Inst.M.M., F.G.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Biswas, Mr. K. P.
Bogdanov, Mr. L.
Brahmachari, Dr. U. N.
Brown, Mr. Percy
Chatterjee, Mr. P. P.
Chopra, Lt.-Col. R. N.
Coulson, Dr. A. L.
Ezra, Sir David
Ghosal, Dr. U. N.
Guha, Dr. B. S.

Haq, Mr. M. M.
Horon, Dr. A. M.
Hobbs, Mr. Harry
Hora, Dr. S. I.
Hosain, Dr. M. Hidayat
Hubert, Mr. O.
Kavyatirtha, Pt. R. D.
Krishnan, Dr. M. S.
Law, Dr. S. C.
Majumdar, Mr. N. K.
Manen, Mr. Johan van

Mani, Mr. M. S.
 Mookerjee, Mr. R. P.
 Mukherjee, Dr. J. N.
 Prashad, Dr. Bani
 Rahman, Mr. S. K.

Ray, Dr. H. C.
 Rossetti, Mr. F. F. L.
 Sarvadhikary, Sir D. P.
 Seal, Mr. S. C.
 Wadia, Mr. D. N.

Visitors :

Fermor, Mrs.

Parkinson, Mr. C. L.
 Sale, Mr. H. M.

The minutes of the last meeting were read and confirmed.

The General Secretary announced that the presentations of books, etc. received during the last month would be exhibited in the next Monthly Meeting.

The following candidates were balloted for for election as Ordinary Members :—

(3) *Selzam, Edward von*, German Diplomatic Service, Acting Consul General for Germany, 18, Store Road, Ballygunge, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(4) *Vasu, Visva Nath*, 8, Visvakosh Lane, Baghbazar, Calcutta.

Proposer : Ramaprasad Chanda.

Seconder : Nagendra Nath Vasu.

(5) *Richter, Herbert*, Dr. Jur., Vice-Consul for Germany, 3, Lansdowne Road, Calcutta.

Proposer : O. Hubert.

Seconder : Johan van Manen.

(6) *Law, Bhabani Churn*, Merchant, Zemindar and Artist, 223, Cornwallis Street, Calcutta.

Proposer : Johan van Manen.

Seconder : L. L. Fermor.

(7) *Pasricha, Chirunji Lal*, M.A., M.B., B.Chir. (Cantab.), M.R.C.S. (Eng.), L.R.C.P. (Lond.), Captain, I.M.S., Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(8) *Nariman, Rustom K.*, M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), Professor of Engineering, Osmania University, 'Gulistan', Sappers Lines, Secunderabad, Deccan.

Proposer : D. N. Wadia.

Seconder : L. L. Fermor.

(9) *Bhuyan, Suryya Kumar*, M.A., B.L., A.E.S., Honorary Provincial Director of Historical and Antiquarian Studies, Assam ; Professor, Cotton College, Gauhati, Assam.

Proposer : J. P. Mills.

Seconder : K. L. Barua.

(10) *Sale, Harold Montague*, M.A., F.G.S., Geologist, Burmah Oil Co., Ltd., o/o Burmah Oil Co., Ltd., Badarpurghat P.O., Sylhet, Assam.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(11) *Percival, Fredrick George*, B.Sc., Ph.D. (Lond.), F.G.S., General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co., Ltd., Jamshedpur.

Proposer : L. L. Fermor.

Secunder : Johan van Mauen.

(12) *Bates, William Hayes*, Ceramic Engineer, Burn & Co., Ltd., Raniganj, Dt. Burdwan.

Proposer : L. L. Fermor.

Secunder : A. M. Heron.

(13) *Kirby, Walter*, B.Sc., Inspector of Mines in India, Dhanbad, E.I.R.

Proposer : L. L. Fermor.

Secunder : A. M. Heron.

(14) *Williamson, Fredrick*, I.C.S., Political Officer in Sikkim, Gangtok, Sikkim.

Proposer : L. L. Fermor.

Secunder : Johan van Mauen.

(15) *Haldar, Bharati Vikas*, M.A., B.L., Advocate, High Court, 47, Haldarpara Road, Kalighat, Calcutta.

Proposer : Amareswar Thakur.

Secunder : S. K. Chatterji.

The General Secretary drew attention of the members to the presentation by Sir David Ezra of a copy of the Descriptive Catalogue of Hebrew and Samaritan Manuscripts in the Sassoon Library, London, compiled by David Solomon Sassoon, Sir David's brother-in-law.

Unanimously resolved to express the Society's thanks to the generous donor.

Before proceeding to the remainder of the business for the evening the President made the following announcement :—

'I would propose that this Ordinary Meeting should formally confirm the election of the twelve Special Anniversary Honorary Members whom we elected in the Anniversary Meeting on January 15th.

'Such Anniversary members are not defined in our Rules and no specific direction exists for the method of their election. It seems to me desirable that in this case we should follow the analogy of the election of Associate Members and confirm the election in the next meeting held after the one in which they were first proposed.'

Unanimously resolved to confirm the election of the twelve Special Anniversary Honorary Members made in the Anniversary Meeting of the Asiatic Society of Bengal on January the 15th, as follows :—

1. Baron Ernest Rutherford of Nelson.
2. Prof. Albert Einstein.
3. M. A. Lacroix.
4. Sir Sydney Burrard.

5. Dr. Henry Fairfield Osborn.
6. Dr. Sir Sven Hedin.
7. Sir John Marshall.
8. Dr. Rabindra Nath Tagore.
9. Prof. Taha Hosain.
10. Prof. Arthur Christensen.
11. Dr. J. Van Kan.
12. H.R.H. Prince Damrong Rajanubhab of Siam.

The General Secretary announced the following loss of membership, since the previous meeting, by death :—

- (1) MM. Kamal Krishna Smrititirtha (An Associate Member, 1924).

The General Secretary announced receipt of news of the death of Dr. Ernst Hartert, one of the recipients of the Joy Gobind Law Memorial Medal of the Society (1933).

The President announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.



MARCH, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT :

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S., M.Inst.M.M., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Bogdanov, Mr. L.
Bose, Mr. M. M.
Brahmachary, R. B. S. C.
Brown, Mr. Percy
Coulson, Dr. A. L.
Dods, Mr. W. K.
Ezra, Sir David

Heron, Dr. A. M.
Hobbs, Mr. H.
Hora, Dr. S. L.
Jain, Mr. C. L.
Manon, Mr. Johan van
Mani, Mr. M. S.
Prashad, Dr. B.
Sarvadhikary, Sir D. P.
Wadia, Mr. D. N.

Visitors :

Acharya, Mr. M. N.

Bhattacharya, Mr. Bhabatosh
Mukhorjee, Mr. D. D.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of thirteen presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(16) *Sharma, M. S. M.*, Special Correspondent, 'The Hindu', 23C/1, Mahendra Road, Bhawanipore, Calcutta.

Proposer : L. L. Fernor.

Seconder : Bains Prashad.

(17) *Craddock, Walter Merry*, D.S.O., Colonel, M.C., Sheriff of Calcutta, Stock Broker, Bengal Club, Calcutta.

Proposer : L. L. Fernor.

Seconder : Johan van Manen.

(18) *Singh, The Hon'ble Maharajadhiraja Sir Kameshwar*, K.C.I.E., Darbhanga.

Proposer : Sir David Ezra.

Seconder : L. L. Fernor.

(19) *Modi, Jchangir Jeevanji Jamshedji*, Merchant, 5, Dhurruntollah Street, Calcutta.

Proposer : D. N. Wadia.

Seconder : E. S. Olpadvala.

The General Secretary reported the following loss of membership since the previous meeting, by death :—

(2) The Hon'ble Sir P. C. Mitter (An Ordinary Member, 1924).

The Chairman called upon Dr. Bains Prashad to read an obituary notice of Dr. Ernst Hartert (*vide* page 185).

The Chairman called upon Mr. Bhabatosh Bhattacharya to read an obituary notice of MM. Kamalkrishna Smrititirtha (*vide* page 186).

The Chairman called upon Mr. Johan van Manen to read an obituary notice of the Hon'ble Sir P. C. Mitter (*vide* page 188).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(1) C. A. John Hendry (An Ordinary Member, 1924).

The General Secretary reported the constitution of the various standing Committees of the Society for 1934-35 to be as follows :—

Finance :

President.	} <i>Ex-officio.</i>
Treasurer.	
General Secretary.	
Dr. A. M. Heron.	
Dr. J. N. Mukherjee.	

Library :

President.	} <i>Ex-officio.</i>
Treasurer.	
General Secretary.	
Philological Secretary.	
Jt. Philological Secretary.	
Biological Secretary.	
Physical Science Secretary.	
Anthropological Secretary.	
Medical Secretary.	
Library Secretary.	

Publication :

President.	} <i>Ex-officio.</i>
Treasurer.	
General Secretary.	
Philological Secretary.	
Jt. Philological Secretary.	
Biological Secretary.	
Physical Science Secretary.	
Anthropological Secretary.	
Medical Secretary.	
Library Secretary.	

The following communications were made :—

1. BAINI PRASHAD.—*Harappa animal Remains.*

The animal remains excavated at Harappa from 1924-25 to 1930-31 by the Archaeological Survey of India have yielded very interesting material of 30 species of invertebrates and vertebrates. A general comparison of the species obtained at Harappa is made with those excavated at Mohenjo-daro, and attention is directed to the great deal of light which these extensive collections have thrown on the probable ancestry and centres of domestication of such forms as dog, cattle, buffalo, goat, sheep, pig and camel.

2. S. L. HORA.—*Fish Slime and Precipitation of suspended Mud in Water.*

The slipperiness of the body of a fish is due to the presence of a slimy mucus secreted by special skin glands. The function of the slime is supposed to be 'to minimize friction with the surrounding water and to enable the fish to glide along easily'. While investigating the biology of *Lepidosiren*, a lung-fish of South America, Prof. J. Graham Kerr found that the 'mucous secretion of the skin of *Lepidosiren* appears to have a remarkable power of precipitating mud held in suspension in water'. In connection with my work on the ecology of certain estuarine fishes Prof. Graham Kerr suggested to me to test whether the slime of these fishes reacts similarly to that of *Lepidosiren*. Water in which fishes had been kept for some time was used for testing this property, and it was found that this 'slime-solution' had remarkable power of precipitating mud held in suspension. A demonstration of the actual process was given in the meeting.

Investigations have been started for testing the slime in the case of several other clear-water and muddy-water fishes.

There appears to be a special biological significance of this phenomenon. 'Water-breathing' fishes are usually suffocated in muddy water, and in several parts of India advantage is taken of this fact for fishing purposes. By the precipitation of the mud with the help of the mucus the water-breathing fish are able to have clear water for respiration by means of their

gills, which, it may be remarked, are very delicate structures, and likely to be choked with mud in dirty water.

The following exhibits were shown and commented upon :—

1. M. S. MANI.—*An interesting case of Cladode-formation in certain Plants due to the Attack of Gall-forming Organisms.*

Certain minute gall-forming organisms, such as mites, aphids, etc., attacking in very large numbers the surface of the stems of plants give rise to the formation of very peculiar cladode-like growths. Like the true cladodes, such pathological cladodes or *Platyclad galls* also proceed from the same cause, namely, xerophytic conditions. The thousands of mites sucking the plant juice at the surface has the same effect as the excessive transpiration which gives rise to cladodes and consequently a flattening of the attacked stem results. The flattening is also accompanied by a general swelling of the growth, owing to the fact that in addition to the effect of excessive removal of sap from their surface, a certain amount of cell proliferation also takes place as a result of the attack.

Platyclad galls often have extraordinarily curious shapes but in all cases the flattening of the stem is prominent. The cladode-like galls of *Flacourtia sepriaria* Roxb., caused by a mite, are exhibited. One specimen is seen to be long and undulate, with suppressed internodes and crowded leaves. The other specimen is peculiarly coiled like a watch spring. The pathological aspect of the formation of these galls was further explained.

2. M. S. MANT.—*The 'Wireless' Aerials of Gall-midges.*

Among the various complex antennal structures of the gall-midges (*Cecidomyidae*), the circumfila are the most interesting. They have been described as auditory structures but there is evidence to believe that they play in the male the rôle of 'aerials' for receiving and tuning in a wave of some kind transmitted through space from the antennæ of the female gall-midge and thus serve as the receiving set for the wireless messages of love. The emanations from the female appear to be of the kind of electro-magnetic waves, with wave-lengths very nearly approaching but not quite the same as those of the visible spectrum. Consequently the tuning in of these waves by the male circumfila appear to be considerably interfered with by the presence of ordinary light and the male gall-midge mistakes in such cases the rays of the so-called visible light for the emanations from the female. Thus while in response to a 'call', a male midge is flying in a particular direction, any light rays happening to cross its path confuses it. The midge then turns towards and flies to the light. Many gall-midges are thus found near light.

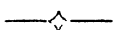
This is the new function tentatively assigned to the circumfila of the gall-midges, which would also explain at the same time why gall-midges fly towards light. Various modifications of the circumfila are exhibited. The structure was described in detail and the function further explained with accounts of some experiments.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.



APRIL, 1934.

No Meeting.



MAY, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 7th, at 5-30 P.M.

PRESENT :

A. M. HERON, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E.,
Library Secretary, in the Chair.

Members :

Bhattacharya, Mr. Bisvesvar
Bogdanov, Mr. L.
Driver, Mr. D. C.

Ghuznavi, Mr. I. S. K.
Hora, Dr. S. L.
Jam, Mr. Chhotelal

Manen, Mr. Johan van

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced the presentation to the Society by M. J. Delacour of a copy of his work on the ' Birds of French Indo-China '.

The General Secretary drew the attention of the members to a recent issue of the catalogue of books in European languages in the Society's library.

The General Secretary reported receipt of news of the election of Dr. L. L. Fernor and Lt.-Col. R. B. S. Sewell to Fellowship of the Royal Society.

The following candidates were balloted for for election as Ordinary Members :—

(20) *Bent, William Antony*, Assistant, Messrs. George Henderson & Co., Ltd., 101/1, Clive Street, Calcutta.

Proposer : H. Richter.

Seconder : J. A. Clough.

(21) *Duncan, Percival Cairncross*, Mercantile Assistant with Messrs. George Henderson & Co., Ltd., 101/1, Clive Street, Calcutta.

Proposer : H. Richter.

Seconder : O. Hubert.

The General Secretary reported that an application for Institutional Membership had been received from :—

(7) The Librarian, Bombay University, Bombay, which had been accepted by the Council.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(2) Sir Zahid Suhrawardy (An Ordinary Member, 1927).

(3) J. G. Drummond (An Ordinary Member, 1928).

The following papers were read :—

1. T. A. WELLSTED.—*Notes on the Vakatakas of the C.P. and Berar, and their Country, 4th to 6th century A.D.*

Part One. A general description of a number of old settlements near Ramtek distinguished by the occurrence of 'Gupta' type bricks, etc., and a short general description of two major sites at Mansar and Nandpur, in which it is suggested that the identification of the ancient Nandivardhana with Nagardhan near Ramtek is not very convincing, but that there seem to be good grounds for identifying it with the Nandpur mentioned in the paper.

Part Two. A detailed description of the Mansar site, with accounts of the monastery area, a supposed fire altar site and burial shaft. It is believed that the altar site described is unique.

Part Three. A short examination of early Vakataka history in which it is suggested that the evidence points to their having been predominantly Southern rulers, and it is suggested that the discoveries described in these notes lend some weight to the supposition that the Vakataka capital was situated near Ramtek.

2. M. K. SUBRAMANIAM.—*Temperature as a Factor in Sex Determination in Man.*

It has long been recognized that there is a seasonal variation in the proportion of sexes in the progeny produced by various animals. This has been demonstrated in Man by Heape, in Mice by Parkes, in *Peromyscus* by Sumner, in

Albino Rats by King and Stotsenberg, and in Dogs by Heape. Various explanations have been offered to this phenomenon at various times. The Hindus 2,000 years ago attributed it to the variation in the equilibrium between the three humours of the body and early in the Twentieth Century scientists attributed it to metabolism and a certain inherent rhythm. Climate is divided according to temperature, rain, and other meteorological conditions and as temperature is an important factor an attempt has been made in this paper to correlate seasonal variation in the sex ratio with temperature conditions. *Conclusion.* If, as Orton has shown, particular temperature conditions are required for reproduction, it is also possible that the sex of a child may be similarly affected by temperature.

The following exhibit was shown and commented upon :—

1. I. S. K. GHUZZAVI.— *A ringed Bird captured in Bengal.*

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.



JUNE, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 4th, at 5-30 P.M.

PRESENT :

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.A.S.B., Vice-President, in the Chair.

Members :

Brahmachary, R. B. S. C.
Brown, Mr. Percy
Chatterji, Mr. P. P.
Ghose, The Hon'ble Mr. Justice M. C.
Ghose, Mr. T. P.
Ghosh, Mr. P. N.
Guha, Dr. B. S.

Jain, Mr. C. L.
Krishnan, Dr. M. S.
Manen, Mr. Johan van
Mitter, Mr. K. N.
Mukherjee, Dr. J. N.
Stagg, Lt.-Col. M.
Urquhart, Dr. W. S.

Visitors :

Roy Chowdhuri, Mr. S. P.

Majumdar, Mr. B. R.

The minutes of the last meeting were read and confirmed.

On behalf of the Society the General Secretary conveyed to Sir Upendra Nath Brahmachari their hearty congratulations with the conferment upon him by His Majesty of the dignity of Knighthood.

Sir Upendranath replied briefly.

The General Secretary reported receipt of four presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(22) *Daver, Nanabhoj Sorabji*, B.A. (Hons.), Mercantile, c/o Parke, Davis & Co., 5, Dharamtola Street ; and 275, Bowbazar Street, Calcutta.

Proposer : M. D. Darbari.

Seconder : Johan van Manen.

(23) *Chatterji, Bijan Raj*, Ph.D. (London), D.Litt. (Punjab), Professor of History, Meerut College, Meerut ; and 5, Wood Street, Calcutta.

Proposer : P. C. Bagchi.

Seconder : M. Hidayat Hosain.

The following papers were read :—

1. J. A. DUNN. *Late tertiary Uplift in Singhbhum.*

Evidence is noted of differential uplift in Singhbhum to the extent of 300-350 feet. The raised area has, since uplift, been subjected to erosion by streams which are working practically at base level, and small plateaux, rising some 200-400 feet above the present plains, are all that remain of the old peneplain. Certain gravels and grits, often consolidated, have taken part in these movements, and the gravels are found in places at the top of the residual plateaux.

The amount of erosion, since uplift, by streams working practically at base level, suggest an age earlier than Pleistocene for the gravels and period of uplift.

2. GEORGE P. CONGER.—*Cosmic Persons and Human Universes in Indian Philosophy.*

Twelve years ago the author published a work on macrocosms and microcosms in which he dealt with this subject as found in western philosophy. The present paper is an appendix dealing with the Indian material. It endeavours to focus in small compass the material from a historical and bibliographical point of view so as to form a compendium suitable as a basis for any further research.

3. M. ABDUL MAJEED. *Occurrence and Distribution of Diatoms in the Punjab.*

Analysis of the contents of a collection of 130 tubes made by the writer from October 1930 to June 1931 mainly from Lahore and its vicinity, also from Gujranwala, Hafizabad, Daska, and other places. Sub-aerial Association. Aquatic Association. Epiphytic forms. Distribution.

4. SARAT CHANDRA MITRA.—*On Plant-lore from Bihar.*

A case of intertwined Pipal and Banyan. Explained as retribution for unpaid borrowed money. A similar myth

regarding parasitical plants growing upon trees. Hindu custom of planting several sacred trees together. Planting of groves to earn religious merit. Mock marriages of mango-groves. The back-biter of Muzaffarpur. Ancestor-worship.

5. SARAT CHANDRA MITRA.—*A note on the Cult of the agricultural Deities, Sama and Chako, in North Bihar.*

Description of a children's game which is a form of crypto-worship, probably the survival of some aboriginal cult, connected with the male productive and female generating powers of nature.

6. SARAT CHANDRA MITRA.—*On the Worship of the Plough in North Bihar.*

Worship in the months of Kārtik and Māgh. Legendary Origin. Animism of Fetichism? European parallels. Orāon worship of the ploughshare.

7. SARAT CHANDRA MITRA.—*On a curious Cult of Orissa.*

The cult of Dihwār or Chirkutwā-Pir, the Saint of Rags and Tatters. The cult of Dhelhā, the Saint of Clods. The cult of Dhelāi Chandī, Our Lady of Clods. The cult of Ghorā-muhā Bāsuli, the mare-headed Bāsuli. Totemistic considerations. Totemism in India.

The following communications were made :—

1. J. N. MUKHERJEE.—*Fish Slime and Precipitation of suspended Mud in Water.*

Dr. S. L. Hora communicated in the March Meeting of the Society a case of mucous slime secretion of estuarine fishes in India, with a remarkable power of precipitating mud held in suspension.

The present communication deals with the chemical aspect of the problem.

2. S. P. ROY CHOWDHURY.—*A note on the precipitating Action of slime Water obtained from Bora Fish.*

The slime water was obtained from the Bora Fish by keeping it in conductivity water (No. 1) for some time, and also in tap water (No. 2). The fish (No. 1) died within an hour and a half after immersion in conductivity water. On the other hand in tap water the fish (No. 2) is still living after nearly two months. The slime waters (Nos. 1 and 2) have an acidic reaction and have been found to exert a sensitising effect on negatively charged colloidal solution of clay and of gold (Zsigmondy's method) as also on positively charged ferric hydroxide sol. On passing an electric current through the slime water (No. 2) a few white flocculi separate at the negative electrode. It also appears that the slime water (No. 2) has practically no effect on the electric charge of the clay suspension. Also it is

found that the pH of the clay suspension with slime water decreases from 7.5 to 5.0.

The slime water has thus a definite sensitising effect. It is possible that this effect is greater at the surface of the first than that observed with the slime extract.

The following exhibit was shown and commented upon :—

1. JOHAN VAN MANEN.—*Three large Specimens of Limonite from China.*

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman then placed before the meeting for discussion the following notice to the Resident Members issued under Rule 64A.

NOTICE TO THE RESIDENT MEMBERS.

During the long history of the Asiatic Society of Bengal the question of applying for a Royal Charter has been raised on previous occasions. It is a tradition within the British Empire that distinguished scholarly bodies may receive such a Charter, on the one hand to enhance their prestige, and on the other to obtain the legal and other privileges connected therewith, such as becoming a body corporate.

In the outside world the impression is widely prevalent that the Society already possesses a Royal Charter and much of the official and private correspondence received is addressed to it under the style of the Royal Asiatic Society of Bengal. On the occasion of the recent celebration of the 150th Anniversary of the Society's foundation not the least gratifying aspect has been the generous appreciation expressed by various Royal Societies within the British Empire and equivalent bodies in other countries.

The name Asiatic Society of Bengal contains an element of confusion inasmuch as the designation Bengal refers only to the location of the Society but not to its activities. The latter have an all-Asia scope. The Society's membership is drawn from all over India.

During the first period of its existence the Asiatic Society of Bengal was unique in India and focussed as a single body almost all scholarly endeavours, both scientific and literary, undertaken in this country. In the 150 years which have elapsed since the foundation of the Society the position has materially altered. A great number of specialized or localized scholarly Societies have sprung into existence and Institutions of various kinds prosecute the Asiatic Researches which 150 years ago were practically monopolized by the Asiatic Society of Bengal in this Continent.

For all these reasons the Council of the Society has judged the time ripe to apply for a Royal Charter for the Society, which, if granted, would enable it to fall, also formally, into line with its sister Societies throughout the British Empire, and have the effect of consolidating the position which it has actually occupied so long.

The Council further considers it desirable that the old designation of 'Asiatic Society of Bengal' with all its associations and prestige should be preserved, but that at the same time the name and style of the Society should contain a clear indication of its all-India character.

The Council has therefore resolved that under Rules 64, 64A, and 78 of the Society's constitution a vote of the general body of its members should be taken to ascertain their views in the matter. According to

the Rules, preliminary to the issue of a voting paper, the question must be placed for consideration before a General Meeting of the Society and the resident members must be notified by printed circular of the nature of the proposals and the reasons for them. Under this Rule the present notice is being sent out.

The proposals of the Council on which they intend to take the vote of the general body of members are two-fold as follows :—

- (1) That the Asiatic Society of Bengal do make an application for the grant of a Royal Charter.
- (2) That the name and style under which the Charter should be petitioned for be that of 'Royal Asiatic Society of India, Asiatic Society of Bengal'.

These two proposals will be discussed in the Ordinary General Meeting to be held on Monday, 4th June, 1934, at 5-30 P.M., at the Society's Rooms, No. 1, Park Street, Calcutta.

ASIATIC SOCIETY OF BENGAL,
1, PARK STREET,
Calcutta, 31st May, 1934.

JOHAN VAN MANEN,
General Secretary.

The Chairman after explaining the Council's views in the matter called for remarks from the members on the above.

After full discussion it was unanimously resolved that the Society should make an application for the grant of a Royal Charter.

It was also unanimously resolved that it was desirable to have contained in the name under which the Charter should be granted an indication of the All-India status of the Society, whilst at the same time preserving the words contained in the old title 'Asiatic Society of Bengal'.

It was further resolved that the members present preferred the form 'Asiatic Society of Bengal, Royal Asiatic Society of India' to the form proposed by the Council, 'Royal Asiatic Society of India, Asiatic Society of Bengal'.

One member suggested that a suitable compromise would be a name as follows :—

'Royal Asiatic Society of Bengal and India.'

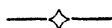
It was also pointed out that the designation 'Royal' would perhaps in any case be required to precede all other parts of the name.

The General Secretary explained on behalf of the Council that application for the grant of a Charter would have to be made in the form of a humble petition and that in the matter of the wording of the name only a desire could be expressed but no demand made, and that, as His Majesty's advisers would have to consider the question under its various very comprehensive hearings, it would be desirable that the application should only suggest a name, leaving open the way for the introduction

of minor variations by the introduction of the words 'of the type of'.

It was unanimously agreed to that the Council should be left latitude in this matter and that the name to be suggested should be preceded by the qualification 'of the type of'.

After the resolution was passed the Hon'ble Mr. Justice M. C. Ghose requested that under Rule 64A his objection to this resolution might be recorded, namely, that in his opinion a change of name of the Society was undesirable.



JULY, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT :

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.A.S.B., Vice-President, in the Chair.

Members :

Agharkar, Dr. S. P.
Bent, Mr. W. A.
Bogdanov, Mr. L.
Brown, Mr. Percy
Chattopadhyay, Mr. K. P.
Driver, Mr. D. C.

Duncan, Mr. P. C.
Hora, Dr. S. L.
Hosain, Dr. M. Hidayat
Jain, Mr. Chote Lal
Manen, Mr. Johan van
Rossetti, Mr. F. F.

Visitors :

Das-Gupta, Mr. C. C.

Husain, Mr. S. Wajahat

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(4) Shifa-ul Mulk Hakim S. M. Siddiq (An Ordinary Member, 1925).

The General Secretary reported that, in accordance with Rule 45, the Council submit for confirmation, the following change in the constitution of the Council, made in one of the Council Meetings, held since the last Ordinary Monthly Meeting :—

Member of Council. The Hon'ble Sir B. L. Mitter, K.C.S.I. *vice* Sir C. C. Ghose, resigned.

The appointment was confirmed.

The following papers were read :—

1. K. P. CHATTOPADHYAY and N. K. BASU.—*The Māṇḍā Festival of Chota Nagpur.*

Description of the Māṇḍā festival based on data as collected by the authors in 1924.

Description of the ceremonial, origin, the deothān, the deity ; the festival, dress, dances, the Charkhi ; the priests.

From a close study of the festival, it has become clear that the Māṇḍā festival is similar to the Grahaharan and Chaḍak festivals of Bengal, and from the point of view of culture contact important similarities and divergences are noticed.

2. C. C. DASA GUPTA. —*The Viśvanātha Temple at Maribag, Rewa State, C.P.*

Location. Description : basement, tower, the architectural portion in two parts (the door with the façade, Jagamohana, and the main shrine, Vimāna), sculptures on the upper storeys of the basement. Discussion regarding the age. Lack of inscriptions.

Conclusion : The temple should in all probability be assigned to the 9th century A.D, two centuries earlier than the Kaṇḍārya Mahādeva temple.

3. A. K. MITRA. *The Mauryan Lāts or Dhvaja Stambhas. Do they constitute an independent Order ?*

An analysis of the Mauryan pillars standing in the open, the so-called lāts, has been made in this paper with a view to find out whether there is a unity of proportion determining the mutual relations of their parts. Distribution and enumeration. Foundations.

Morphology of the pillars. Division of the pillar into three parts, the base, the shaft, and the capital. The crowning sculptures, ornaments. Measurements of the pillars found in different parts of India. Criticism of the measurements taken by Sir Alexander Cunningham and other officers of the Archaeological Survey of India. Results of the author's measurements of the pillars.

Conclusion : The variability as regards proportions and morphology is explained best by the hypothesis that Mauryan architecture did not start with a rigid canon. The heterogeneous elements which can be recognized in the Dhvaja pillars are in the first instance assembled together and welded into an organic type by the creative genius of the Mauryan architect, a type destined to persist, it is true with modifications, for nearly a millennium.

4. E. F. O. MURRAY. *The ancient Workers of Western Dhalbhum.*

The Dhalbhum Pergannah, which forms the most easterly portion of the Singbhum District of Chota Nagpur, has long

been noted for the multiplicity of ancient workings that occur therein. It has an area of nearly 1,200 miles through which the copper belt runs roughly south-east and north-west for a distance of over 50 miles.

Description of the country. Ethnographical survey of the inhabitants. Geology of the district. Copper remains. Shrines. Description of the relics found in the shrines. Gold workers of Dhalbhum.

Evidences available regarding the ancient workers of Dhalbhum: (1) Coins of the 3rd to 5th centuries A.D. near Ruamgarh; (2) tradition and history; (3) Ruamgarh and remains of shrines; (4) burial urns and other pottery; (5) beads; and (6) neolithic and palæolithic tools.

Jain and Chinese connection with Dhalbhum. Resemblances of the terra cotta, beads, etc., found at Bonidi with those recently unearthed at Ur and at Mohenjo Daro.

Conclusion: The ancient civilizations that existed at Ur, Harappa, and Mohenjo Daro seem to have many features in common that can only have originated through intercourse, and time may prove that these influences extended further eastwards than has been thought.

5. S. WAJAHAT HUSAIN.—*Kitāb al-Aṣḥiyā' of ad-Dāraqutnī.*

Among the valuable Manuscript works preserved in the Khuda Bakhsh Oriental Public Library, Patna, the author came across a Manuscript named *Kitāb al-Aṣḥiyā'* (No. 372, Vol. V, Ar.M. 82). It is a unique treatise on *Hadīth*, dealing with the excellence of generosity, written by famous traditionist, ad-Dāraqutnī (died A.D. 995). As far as the author has been able to gather from the various catalogues of Arabic Manuscripts prepared in India, Europe and other places, no other copy of the book is available elsewhere. Accordingly he has attempted to present the students of *Hadīth* with a critical edition of this valuable work giving reference wherever possible to the sources of the texts, and other important points on the subject.

The author also gives a detailed note on the life and work of ad-Dāraqutnī in Arabic together with an English summary.

6. M. SAYEEDUD-DIN.—*Some of the common flowering Plants of the Hyderabad State. Their Distribution, economic and medicinal Importance.*

An attempt to collect and identify the chief plants of the Hyderabad State has enabled the author to record some of the plants found either under cultivation or growing wild in the Hyderabad Dominions. Attention has been mainly directed to the city environs and towards Pakhal, a talukha of the Warangal District of Hyderabad. The Pakhal forest extending over miles, provides a diversity of plant life. Altogether 304 species belonging to 63 families of Dicotyledons have been

described, out of which about 206 are of medicinal value, and most of these are also of economic importance.

7. K. M. ASHRAF. — *Life and Conditions of the People of Hindūstān from 1200–1550 A.D., mainly based on Muslim Sources.*

An attempt is made in this thesis to give a sketch of social life in Hindūstān (Northern India) under the Muslim Sultāns of Delhi before Akbar. The plan of treatment is as follows:— After an introductory chapter dealing with the scope and the sources of study of the subject, three chapters are devoted to some socio-political factors, namely, the theory of Muslim sovereignty (or the 'Sultanate'), the personality of the monarch, the various classes. This is followed by three chapters on some aspects of economic life, namely, rural life, industry and commerce and the standards of life of various classes. Social life is treated in four chapters dealing with domestic life, social and domestic comforts, amusements and recreations, and manners respectively. In conclusion, some remarks are added to help a proper appreciation of the course of social developments during the period.

For the collection of the data copious materials scattered in various Arabic, Persian and Nagari originals have been used, together with such others as were available in translations. This comprises a survey of general and special histories, accounts of travellers, books of poetry, folklore and fiction, legal compendiums, mystic literature and compilations on ethics, politics and various practical arts, without, however, exhausting the range of the materials.

The interest of such a study lies in examining the social inter-actions of Hindus and Muslims during the first period of their contact in Northern India and in providing a proper background for the study of the later social developments. Where necessary, evidence has been checked by a comparison with examples from Akbar and from present-day survivals.



AUGUST, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT :

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S.,
M.Inst.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Bose, Mr. M. M.	Ghose, Mr. T. P.
Brahmachari, Sir U. N.	Haq, Mr. M. Mahfuz-ul
Chatterji, Mr. P. P.	Heron, Dr. A. M.
Chopra, Dr. B. N.	Hobbs, Mr. H.
Darbari, Mr. M. D.	Hora, Dr. S. L.
Daver, Mr. N. S.	Jain, Mr. C. L.
Dutt, Dr. Nalinaksha	Mauon, Mr. Johan van
	Rahman, Mr. S. K.

Visitor :

Mullick, Mr. M.

The Minutes of the last Meeting were read and confirmed.

The General Secretary reported receipt of thirteen presentations of books, etc., which had been placed on the table for inspection :—

The following candidates were balloted for for election as Ordinary Members :—

(24) *Mullick, Manick Lall*, Land-holder, 123, Grey Street, Calcutta.

Proposer : M. M. Bose.

Seconder : Sir U. N. Brahmachari.

(25) *Ray, Karmajogi*, Sahityaratna, Land-holder, Government Contractor, Merchant and Agent ; Proprietor, K. Ray & Co., Landing Shipping Agency, 17A, Brindaban Paul Lane, P.O. Shambazar, Calcutta.

Proposer : M. M. Bose.

Seconder : A. M. Heron.

(26) *Husain, Syed Ata*, M.A. (Cal.), C.E. (Roorkee), Retired Superintending Engineer, Hyderabad State, Lingumpally, Hyderabad, Deccan.

Proposer : M. Hidayat Hosain.

Seconder : M. Mahfuz-ul Haq.

(27) *Rao, U. Shanker*, Bengal Pilot Service, 83, Chowringhee, Calcutta.

Proposer : Sir B. L. Mitter.

Seconder : S. L. Hora.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(5) P. K. Kurup (An Ordinary Member, 1929).

Under Rule 65, the Chairman called upon members present who had not yet sent in a voting paper on the questions relating to the proposed application for a Royal Charter by the Society and who were desiring to do so to fill in a voting paper before the count of the votes.

No additional votes were given.

The Chairman requested the General Secretary to report on the voting papers received.

The Chairman in accordance with Rule 65, appointed Messrs. H. Hobbs and A. M. Heron to be scrutineers and to report to the meeting.

The following papers were read :—

1. EKENDRANATH GHOSH. *—An experimental Study on the Asphyxiation of some air-breathing Fishes of Bengal.*

In view of the marked difference of opinion in reference to the asphyxiation of some common fish of Bengal, the author conducted a few simple experiments to clear up some of the disputed points. The results of his observations are recorded in this paper.

2. SANANKA SARKAR. *The social Institutions of the Malpaharias.*

An account of the social institutions of the Malpaharias. Location of the people. Physical characteristics. Social groupings. Society. Crimes. Government. Kinship system. Relationship table. Birth customs. Name giving. Marriage customs. Death and funeral rites.

3. N. MIRANOV. *The Saddharmapaundarika ; a collection of Central Asian Manuscripts of the Lotus of the true Law.*

The investigation of Central Asian sites (Turfan, Kucha, Khotan) by various scholars has brought to light a considerable amount of manuscripts of the 'Lotus' which are not only older (5th-7th centuries A.D.) than the Nepalese ones (9th century and later), but also nearer to the Chinese versions. The author has studied the different sets of those Central Asian Manuscripts in his paper 'Central Asian recensions of the Saddharmapaundarika' (J.R.A.S., 1927, pp. 252-274).

The author distinguishes, according to the script, two groups of manuscripts :—(1) those in the *Upright Gupta* Script and (2) those in the *Calligraphic Upright Gupta* Script.

From the comparison of different sets with other Central Asian Manuscripts and with the Indian epigraphic monuments, the author assigns the first group to the 5th-6th centuries and the second one to the 7th century. A comparison with Chinese versions permits to assign the recension of the text represented by the 1st group to the 3rd century A.D. and the text of the Calligraphic Upright Manuscripts to the 6th century. Up to the present chiefly manuscripts of the latter group have been published or made use of (like the manuscript of the Bibliotheca Buddhica Edition studied by Kern), those of the first one are comparatively little known.

The present collection contains the remains of *three* manuscripts in the Upright Gupta Script, whereof one (A)—12 N° N° (25 Frgg.) belongs to the oldest stratum (middle of the 5th century), while the two others (B and C=20 N° N° or 31 Frgg.) are slightly younger going back to the 6th century. The

manuscript in the Calligraphic Upright Gupta (D) is represented but by 2 N° N° (=7 Frgg.).

The author has added, in an appendix, the edition of five Frgg. of the 'Lotus' from the Stein Collection (India Office Library, London) of which two (S. I, S. II), written in the Upright Gupta Script, are three almost complete leaves, while the rest are important from the literary point of view, giving nearly the same text as some Frgg. of the Otani Collection.

The author has, in his paper emphasized the far-going deviations of the Central Asian recensions, as far as the language is concerned. The manuscripts in the Upright Gupta Script are written throughout in mixed or Buddhist Sanskrit, i.e. represent a Prakrit base overlaid with a faint Sanskrit varnish. Considering the importance of this form of speech of which no Buddhist text is free, the author has compiled a grammar of his texts dealing with both the Phonology and Morphology; he has tried to assign the proper place among the Prakrit languages to the dialect to which Buddhist Sanskrit goes back. Such a grammar will be useful to any student of Buddhist literature, a systematic treatise on the subject being badly lacking. Our present knowledge of Buddhist Sanskrit is confined to a few accidental notes in the editions of Buddhist texts (not to speak of Rajendralala Mitra's work of the early eighties which is out of print).

The following exhibit was shown and commented upon:—

1. JOHAN VAN MANEN.—*An interesting and rare Artifact found in the Jungle in the Ho Country.*

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman called upon the scrutineers to report and announced the results of the voting as follows:—

Proposal (a):—

That the Society do make an application for the receipt of a Royal Charter for the incorporation of the Society.

Total voting papers received	..	..	138
Rejected as not in order ..	..	..	1
In favour of the proposal	..	..	131
Against the proposal ..	..	..	5
Blank ..	..	..	1

Proposal (b):—

That the application do contain the request that the Charter may be granted under a name and style preserving the elements of the present name together with an indication of the All-India character of the Society, as for instance a name of the type of

' Asiatic Society of Bengal, Royal Asiatic Society of India ' with such variations as the Authority granting the Charter may require.

Total voting papers received	..	..	138
Rejected as not in order ..	..	..	1
In favour of the proposal	..	..	118
Against the proposal ..	..	..	10
Blank	..	..	9

Proposal (c) :—

That the Council be hereby authorised to make the necessary consequent alterations in the existing Rules of the Society if and when the Charter be granted.

Total voting papers received	..	..	138
Rejected as not in order ..	..	..	1
In favour of the proposal	..	..	128
Against the proposal ..	..	..	8
Blank	..	..	1

The President explained that the result of the vote was that the Council had been given power to proceed with the application on the basis of the three points formulated in the voting paper. The very first step now to be taken would be to ask for advice in authoritative quarters as to how to proceed and how to formulate the request. The result of the voting would be placed before the advisers and the ultimate application formulated in accordance with the advice received.

The Chairman, on report of the scrutineers, declared all proposals duly passed.

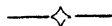
The Chairman announced, that unless previous notices to the contrary were received, Monthly Meetings would be held during the recess months of September and October.

The President raised the question as to how to make the Monthly Meetings of the Society more attractive and interesting and suggested that an endeavour might be made to induce scholars to communicate in the meetings of the Society preliminary results of their investigations and to make interesting exhibits of novelties from time to time, apart from the question of subsequent publication of the fully worked out results.

An animated discussion ensued in which Sir Upendra Nath Brahmachari, Dr. S. L. Hora and the General Secretary took part.

In the course of the discussion it was suggested that a periodical report of the meetings containing an abstract of papers received, communications made, or exhibits shown might be issued between the meetings to all members so as to keep them in closer touch with the activities and current affairs of the Society. Another suggestion made was that this report might publish questions addressed to the Office or Officers of the Society in order to find a wider circle of experts who might

be in a position to contribute suitable replies. The opinion of the meeting was decidedly in favour of such a measure as suggested.



SEPTEMBER, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 3rd, at 5-30 P.M.

PRESENT :

L. L. FERMOR, ESQ., O.B.E., A.R.S.M., D.Sc., F.G.S.,
M.Inst.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Bogdanov, Mr. L.
Brahmachari, Sir U. N.
Chakravarti, Mr. Chintabaran
Chatterji, Dr. S. K.
Driver, Mr. D. C.
Heron, Dr. A. M.
Hora, Dr. S. L.

Hosain, Dr. M. Hidayat
Krishnan, Dr. M. S.
Manen, Mr. Johan van
Mukherjee, Dr. J. N.
Olpadvala, Mr. E. S.
Prashad, Dr. Bani
West, Mr. W. D.

Visitors :

Auden, Mr. J. B.
Datta, Mr. J. M.
Fermor, Mrs.

Iyer, Mr. L. A. N.
Lahiri, Mr. H. M.
Misoh, Dr. Peter

Sondhi, Mr. V. P.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(28) *Vyas, Braj Mohan*, B.A., LL.B., Executive Officer, Municipal Board, Allahabad.

Proposer : M. D. Darbari.

Seconder : M. Mahfuz-ul Haq.

(29) *Asghar, Syed Ali, Musam-Kazmi*, Property Holder, Qayam Manzil, 39 B, Iron Gate Road, Garden Reach, Calcutta.

Proposer : M. Hidayat Hosain.

Seconder : M. Mahfuz-ul Haq.

(30) *Ledrus, Michael*, Professor in Divinity, Lecturer at the Gregorian University, Rome; Member of the Society of Jesus; Editor, 'The New Review'; St. Xavier's College, 30, Park Street, Calcutta.

Proposer : Most Rev. F. Perier, S.J.

Seconder : Johan van Manen.

(31) *Auden, John Bicknell*, M.A. (Cantab.), F.G.S., Assistant Superintendent, Geological Survey of India, 27, Chowringhee, Calcutta.

Proposer : L. L. Fermor.

Seconder : W. D. West.

(32) *Krishnan, K. S.*, D.Sc., Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science, 210, Bowbazar Street, Calcutta.

Proposer : L. L. Fermor.

Seconder : M. S. Krishnan.

(33) *Ow-Wachendorf, Baron W.*, German Consul General, Minister Plenipotentiary, German Consulate General, 3, Lansdowne Road, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(34) *Ulser, M. E. M. M.*, Consul General for Belgium, 9, Pretoria Street, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(35) *Sondhi, Ved Pall*, M.Sc., F.G.S., Assistant Superintendent, Geological Survey of India, 27, Chowringhee, Calcutta.

Proposer : L. L. Fermor.

Seconder : S. L. Hora.

(36) *Couchman, Harold John*, Brigadier, D.S.O., M.C., Surveyor-General of India, Survey of India, 13, Wood Street, Calcutta.

Proposer : L. L. Fermor.

Seconder : A. M. Heron.

The General Secretary reported receipt of news of the death of :—

Le R. P. Henri de Pirey, a Corresponding Member of the French School of the Far East, Hanoi.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(6) Mohammed Musa (An Ordinary Member, 1925).

(7) A. C. De (An Ordinary Member, 1932).

(8) T. Leslie Martin (An Ordinary Member, 1924).

(9) J. N. Mukherjee (An Ordinary Member, 1924).

The following paper was read :—

1. JATINDRA MOHAN DATTA.—*On a Type of sedentary Game in Bengal.*

One of the most popular games of children in Bengal is described. At Asansol and Dhanbad it is known as *Tuk-ṭak*, but in Calcutta the game is commonly called *Lau Kāṭā Kāṭi* or simply *Kāṭā Kāṭi*. It is played by two players.

In a note Dr. S. L. Hora discusses the relationships of the game.

Dr. Hora referred to the great popularity of the game among school children in Calcutta and remarked that in India all sedentary games are believed to be hobbies of idle people. Children are, as a rule, dis-

couraged to play these games. He mentioned certain popular beliefs and superstitions regarding such games.

The following exhibits were shown and commented upon :—

1. L. L. FERMOR.—*Exhibition of four Specimens of Deccan Trap Basalts and Dolerites from the Chhindwara District, Central Provinces.*

In 1916 Dr. Fermor and Dr. Fox published an account of the basaltic lava flows of Deccan Trap age near Linga in the Chhindwara District, Central Provinces,¹ with a map showing the distribution of five separate lava flows. The paper also included an account of the mode of occurrence of these flows, and the earth movements that had affected them since their extravasation. An account of the chemical and petrographic characters was left for publication at a future date.

Specimens representing four of these flows, specially selected at the time for the purpose, have now been analysed, and the results show the value of analysis upon carefully selected specimens of rocks. Although of the four specimens analysed two are basalts and two are dolerites, and although they represent four different flows, yet the analyses are so astonishingly similar that the average of the four might at first sight be taken to represent any one of the four flows. There are, however, subtle differences and when from these analyses the standard mineral composition or norm of each rock is calculated, it is found that there is a definite change in composition from the lowest or earliest flow to the upper or highest of the four flows. From the norms it is seen that the direction of change is increasing alkaline feldspars, increasing total feldspars, and increasing total pyroxenes, with decreasing total iron-ores from the lowest to the highest flow.

Some years ago the late Dr. H. S. Washington published the results of a study of 10 analyses of Deccan Trap lavas from various parts of India. These analyses can be grouped into those that represent the lower division of the Deccan Traps to which the lavas of Linga in the Chhindwara District belong, and those which probably belong to the Upper Traps. On grouping Washington's analyses in this way, and on comparing those of the Lower Traps with those of the Upper Traps, it is seen that the general difference between the composition of the Lower Traps and composition of the Upper Traps as represented by their norms is similar in direction but much larger in degree than that shown by the four specimens from Linga. From this it may be deduced that the tendency to change or magmatic differentiation illustrated by the lavas of Linga on a small scale is an epitome of that generally applicable to the lavas of the Deccan Trap series as a whole.

¹ *Rec. Geol. Surv. Ind.*, XLVII, pp. 81-136 (1916).

Should further work confirm the general character of the differences between the Upper and Lower Traps, it should be possible from a study of analyses to indicate the position in the series occupied by rocks from outlying localities. By this method it is suggested, for instance, that the Deccan Trap of Rajahmundry in the Madras Presidency, which is over 200 miles from the nearest Deccan Trap exposure, belongs in all probability to the Lower Traps.

Mr. Van Manen asked what were the definition and the derivation of the word 'Trap' as applied to the Deccan Trap formation.

Dr. Fermor replied that the word 'Trap' was derived from the Swedish word 'Trappa' meaning stairs, and referred to the manner in which the horizontally-bedded lava flows gave rise on weathering to terraced or step formations. Because these traps were usually basic in composition like basalt, the word 'Trap' had later become extended to many forms of basic rock occurring otherwise than as lava flows. Such extension was, of course, strictly speaking, incorrect.

Dr. J. N. Mukherjee wished to know whether the black cotton soil was always found in the localities where the basaltic lava flow from the Deccan Trap was found.

The speaker replied that there is indeed a close association of this soil with the Deccan Trap.

2. M. S. KRISHNAN.—*The Bahjoi Meteorite Iron.*

Among iron meteorites only a comparatively small number (less than 50) have been actually observed to fall. Great interest therefore attaches to the specimen which was recovered from a fall on the 23rd of July, 1934, between 9 and 10 p.m. at Chandankati Muazam in Bahjoi P.S., Moradabad District, U.P. This was actually picked up by cowherds on the morning of the 25th July. It has the usual battered appearance, produced by a series of shallow depressions on the surface, characteristic of this class, and is roughly triangular in shape, measuring 12" x 10" x 9" with a maximum thickness of 2½ inches. By the time the Geological Survey of India could write and ask for the specimen to be sent, it had been cut into two pieces right across the middle. These two pieces as received, weighed 5527.32 grams and 4795.22 grams respectively (10322.54 grams on the whole). The meteorite shows a few small patches of yellow metallic mineral which is probably troilite embedded in the main mass of nickel-iron. A description of the meteorite is under preparation.

Dr. Fermor said that this fall of a meteoric iron in India was of great interest, because of the rarity of irons actually seen to fall. In Museums there were roughly as many iron as stone meteorites, but whereas the iron meteorites were the accumulation of centuries owing to the ease with which they resisted weathering especially in dry climates, stone meteorites were rarely recovered unless seen to fall and collected at the time of fall. Although there were over 100 meteorites known from India, only 4 of these were irons, and the rest were stone meteorites. The iron meteorites hitherto found in India were Nedagolla, Kodaikanal, Lodhran and Samelia, of which all were seen to fall except the Kodaikanal meteorite. The Samelia fall in Rajputana took place as recently as 1921.

Mr. Van Manen enquired where these extra-terrestrial visitors to India came from.

Dr. Krishnan replied that because of their resemblance to some parts of the earth, they are considered to be essentially fragments of the solar system still moving in inter-planetary space, some occasionally travelling near enough to be attracted by our planet.

Dr. Fernor, supplementing Dr. Krishnan's remarks on this point, observed that there are three principal hypotheses concerning the source from which meteorites came. It was generally accepted that iron meteorites represented the core of some celestial body and the stony meteorites represented the stony crust. On this view one had to suppose that they had been derived from a pre-existing stellar body with a solid crust. One view was that the solar system was derived from the tidal disruption—due to near approach of another stellar body—of a primordial sun, of which the crust had become solid, and that the material torn off the surface of the sun, thereby exposing its hot interior, the present sun, was collected into the planets as the disturbing body moved on, and the sun regained its gravitational control. Some fragments are still ungarnered, and these are the meteorites which fell periodically on the earth.

The second hypothesis derives the meteorites from the earth. This is the hypothesis that supposes that the moon left the earth after the crust had become solid and that the meteorites are stray fragments of the portions of the earth's crust that were thrown into the sky and had not yet been collected either into the moon or into the earth.

The third hypothesis supposes that the meteorites have been shot out in the past from the volcanoes of the moon.

The speaker favoured one of the first two hypotheses as the more probable.

3. M. S. KRISHNAN. —*The Khanpur Meteorite.*

Meteoric stones fell at Khanpur ($25^{\circ} 33' 30''$: $83^{\circ} 7' 30''$) and the surrounding villages within a radius of about $2\frac{1}{2}$ miles situated around the junction of the Ghazipur, Jaunpur, and Benares Districts of the United Provinces on 8th July, 1932 between 12 noon and 1 P.M. Eleven pieces were recovered from ten different villages. The total weight of these is 3248.20 grams, the two largest pieces weighing 1312.13 and 779.14 grams respectively. The meteorite is a white chondrite (Cwb of Brezina's classification) containing enstatite and olivine with some specks of troilite. Most of the pieces show a thin black fused crust on the surface with ill-marked flow lines. The Sp. Gr. of the different pieces varies between 3.256 and 3.466. A description of this fall has recently been published in the *Records of the Geological Survey of India*, Vol. LXVIII, pp. 107-114 (1934).

Dr. J. N. Mukherjee asked whether cobalt was also present along with Se. and Ni. If so, in what percentages?

Dr. Krishnan replied that nickel is present in large quantities, up to about 15%, and cobalt in very small quantities. Concerning selenium which, if present, would be so in very small quantities, he preferred for the moment not to express himself in the absence of satisfactory analyses.

4. S. L. HORA.—*Sun-shades for Fishes.*

In the July issue of the American magazine entitled 'The Aquarium', it is pointed out that even tropical fishes need

protection against high temperatures during the hot summer months, and readers are advised to provide extra shade if their aquaria happen to be in an exposed place where the temperature of water can rise to 90°F. or higher.

It is of interest to note that in Bengal regular, extensive, sun-shades are constructed over shallow ponds and tanks to protect fishes during the hot and dry months, from April to June. In the case of *Nuna tengara* (*Mystus gulio*) baskets are covered with bundles of paddy straw to keep the fish cool.

Photographs of sun-shades for fishes were exhibited.

Dr. Prashad complimented the fishermen of Bengal on the ingenious devices used by them for the care of fishes in tanks, etc., and gave several instances. He further remarked that there is no doubt that during hot summer months fishes prefer shady places and this habit is exploited by anglers to considerable advantage.

In reply to some remarks by Mr. Datta, Dr. Hora pointed out that all small country boats are provided with a cover to serve as shelter for boatmen. The boats used for transporting *Jiol Machh* have a fixed cover at one end, while the rest of the boat can be covered, when needed, with loose covers in sections. No other special arrangement was noticed in the boats that come to Calcutta.

Fish baskets are first covered with a flat, shallow basket to prevent the fish from jumping out and then bundles of paddy straw are put on the cover to provide fishes with additional shade. By this device the water round about the fishes remains sufficiently cool and the fish are protected from the burning heat of the sun.

5. SUNITI K. CHATTERJI.—*Three Small Bronzes from West Africa.*

These three bronzes come from the Gold Coast (probably Ashanti) and were obtained by the exhibitor from Paris two years ago through the kind offices of the Curator of the Musée Guimet who assisted him in purchasing them. These figures were used as weights to measure gold dust. One of them is that of some bird, a turkey or cock, highly stylised; the second is that of a seated personality, the collar of beads round the rather elongated neck suggests that it is of some woman, possibly some chieftainess; and the third one is a replica of a mask. All the three are genuine specimens of the native art of the true Negroes of West Africa, among whom metal work attained a very high state of excellence (particularly among the Bini of Benin in Southern Nigeria).

6. JOHAN VAN MANEN.—*Three China Plates representing the three famous Buddhist Pilgrims.*

On account of the lateness of the hour this exhibit was postponed till next meeting.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that a meeting of the Medical Section had been arranged to be held on Tuesday, the 4th

September, at 6 P.M., when Lt.-Col. R. Knowles, I.M.S., would read the following papers :—

1. *Mosquito Density and Mosquito-borne Diseases in Calcutta City.*
2. *Nuclear Division in Malaria Sporozoites.*

The Chairman announced that a course of four general lectures had been arranged to be held in the Society's Hall, of which the first one was already over on last Friday, 31st August, at 6-15 P.M. (Dr. S. L. Hora on 'Trade in live Fish (*Jiol Machh*) in Calcutta'.)

Friday, August 31st, at 6-15 P.M.

Lecturer: Dr. S. L. Hora, D.Sc., F.R.S.E., F.L.S., F.Z.S., F.A.S.B.
Subject: Trade in Live Fish (*Jiol Machh*) in Calcutta.

Synopsis.

The trade in 'Live Fish' is very old in Bengal and attention was directed to the mode of conveyance of the fishes in olden times. The bionomics of the various species grouped as *Jiol Machh* were referred to briefly and all aspects of the present-day trade from the towing of the boats to Calcutta to the final disposal of fish in homes were described. The various types of measures and baskets used in this trade were illustrated. Reference was made to the great commercial value of these fishes and the necessity of improving the trade was indicated. Statistics were given regarding the trade in 'Live Fish' in Calcutta and a few remarks were made on the earning and mode of life of the fishermen engaged in this trade. Illustrated by lantern slides.

The remaining three lectures would be as below :—

Friday, September 7th, at 6-15 P.M.

Lecturer: J. B. Auden, Esq., M.A., F.G.S.

Subject: The North Bihar Earthquake of the 15th January, 1934.

Synopsis.

The lecture summarised the results of an investigation in the field of Mr. Wadia, Dr. Dunn, Mr. Ghosh, and the lecturer. The description of the severe damage caused by the earthquake regarded two main zones: firstly, the central zone represented by the epicentral tract and the slump belt; secondly, the bordering Patna-Monghyr belt and the Valley of Nepal. A brief discussion of the more general effects of the earthquake, such as emission of sand and water, landslides, etc., was followed by an account of the possible causes, comparison being made with other recent Indian earthquakes. Finally, the lecture ended by discussing the time of the earthquake as deduced by seismographic records, and the question of future immunity in Bihar. Illustrated by lantern slides.

Saturday, September 15th, at 6-30 P.M.

Lecturer: Dr. Meghnad Saha, D.Sc., F.R.S., F.A.S.B.

Subject: The fundamental Constituents of Matter.

Synopsis.

The lecture described discoveries of the Electrons and the recent discoveries of the Positrons and the Neutrons. It also dealt with the probable existence of other probable fundamental particles as Dirac's Free Magnetic Poles and the probable effect of their existence on our views regarding the electro-magnetic origin of mass and in addition

with the nature of cosmic rays, the probable existence of a world of anti-atoms, and also certain other cosmological problems of fundamental importance. Illustrated by lantern slides.

Friday, September 21st, at 6-15 P.M.

Lecturer: Dr. M. R. Sahni, M.A., D.Sc.

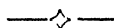
Subject: The Shan Hinterland: the Country and its People.

Synopsis.

The speaker gave a talk on the prolific and amazing variety of tribes inhabiting the Shan States of Burma and dealt briefly with their geographical distribution, their more interesting customs and traditions.

The lecture was illustrated by lantern slides and exhibits collected locally.

The Chairman invited the members present to communicate with the Society's office the names and addresses of non-members to whom they wished invitations to the lectures to be issued.



NOVEMBER, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT :

L. L. FERMOR, ESQ., O.B.E., A.R.S.M., D.Sc., F.G.S., M.Inst.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Aghaika, Dr. S. P.
Bogdanov, Mr. L.
Brahmachari, Sir U. N.
Brown, Mr. Percy
Chakravarti, Mr. C.
Darbari, Mr. M. D.
Dikshit, Mr. K. N.
Driver, Mr. D. C.
Heron, Dr. A. M.

Hora, Dr. S. L.
Hosam, Dr. M. Hidayat
Krishnan, Dr. M. S.
Manen, Mr. Johan van
Ow-Wachendorf, Baron W.
Siddiq, Dr. M. Z.
Sondhi, Mr. V. P.
Wadia, Mr. D. N.
West, Mr. W. D.

Visitors :

Aiyengar, Mr. N. K. A.
Bhattacharji, Mr. D.
Chhabra, Dr. B. Ch.
Day, Mr. A. K.
Gee, Mr. E. R.

Giskra, Baroness
Gregory, Mr. W.
Lahuri, Mr. H. M.
Ow-Wachendorf, Baroness
Row, Mr. P. C.

Vankatsami, Mr. M. S.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc. which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(37) *Chanda, Apurva Kumar*, M.A., I.E.S., Offg. Director of Public Instruction, Bengal, Writers' Buildings, Calcutta.

Proposer : J. N. Mukherjee.

Seconder : Suniti Kumar Chatterji.

(38) *Hosain Bahadur, Prince Afsarul Muluk Mirza Muhammad Akram*, Political Pensioner and Landholder, Afsar Manzil, 20, Ballygunge Circular Road, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(39) *Dey, Mukul*, A.R.C.A. (Lond.), M.C.S.E., etc., Artist and Author, Principal, Government School of Art, 28, Chowringhee, Calcutta.

Proposer : L. L. Fermor.

Seconder : Suniti Kumar Chatterji.

(40) *Gee, Edward Rowland*, M.A. (Cantab.), F.G.S., Geologist, Geological Survey of India, 27, Chowringhee, Calcutta.

Proposer : L. L. Fermor.

Seconder : A. M. Heron.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(4) Sir C. C. Ghose (An Ordinary Member, 1924).

(5) Kumar M. N. Mitra (An Ordinary Member, 1906).

(6) Ekendra Nath Ghosh (A Life Member, 1918).

The General Secretary announced the death of :—

Rev. E. Blatter, S.J. (The first recipient, Bruhl Memorial Medal, 1932).

The General Secretary reported that the election of :—

(1) M. S. M. Sharina (elected on 5-3-34) had become null and void, under Rule 9.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members would be suspended as defaulters within the Society's building for the period of a month to be removed from the Society's registers for non-payment unless the amount due be paid before the next Ordinary Monthly Meeting :—

Jogesh Chandra Bose.

Harit Krishna Deb.

A. H. Ghuznavi.

M. S. Mani.

Sham Lal Kapur.

N. L. Kothari.

J. J. Mahudavala.

Vidyananda Swami.

M. H. Moledina.

R. Kimura.

Count K. Ohtani.

S. P. Sinha.

D. L. Clendenin.

P. K. Das.

Mohd. Amin Abbasi.

Raja K. Deb, Rai Mahasai.

The President called upon the General Secretary to read an obituary notice of the late Sir C. C. Ghose (*vide* page 190).

The following exhibits were shown and commented upon :—

1. JOHAN VAN MANEN.—*Six China Plates representing the three famous Buddhist Pilgrims.*

Genuine Chinese porcelain is as famous as its fakes are feared. India has in the course of its history absorbed a substantial amount of valuable specimens of Chinese ceramics, which come to light from time to time, and after the great European War Calcutta has become an important dispersion centre for old China, both genuine and spurious. The plates exhibited represent the three famous Buddhist Pilgrims, Fa Hsien, Hsüan Tsang, and I Tsing. The period mark gives the date of manufacture as that of Hsüan Ho, the one but last Emperor of the first Sung Dynasty, i.e. A.D. 1119. This is unbelievable, though some Chinese friends who have been consulted think the plates probably genuine. They are submitted for scrutiny by experts.

Mr. Van Manen said that the details on the plates were contrary to all rules laid down in the books on the subject. Pictorial representations did not occur on China-ware at so early a date as given by the date-mark. Also, at that early time no dates were given at all. Dates came into use at a later period. As to the probability of any porcelain or crockery persisting for so long a period, an interesting explanation was given by his Chinese friends. They explained that plates of this nature were only used once a year on the feast day of the pilgrims represented. After ceremonial use such plates are carefully stored away for the remainder of the year. Consequently the life of even such perishable objects might be long. The main question was to determine where and when such plates are or have been manufactured. Personally he thought them very attractive as objects of art.

Mr. Justice Gregory said—

The iron red plates with figures in mat black cannot, in my opinion, be assigned to the period marked on the base.

I think the plates were made for the Tibetan market. I may add that the drawing of the designs is much too tutored for the early period claimed for the dishes.

Mr. Percy Brown said --

While agreeing with Mr. Justice Gregory that the plates are not likely to have been produced in China, I am personally unaware of any place in Tibet (where Mr. Gregory thinks they might have been made) where pottery of any kind is prepared. On the other hand, there is a large region on the Chinese border of which we know little as to its industrial products and it is quite possible that the plates were made there under Chinese influence.

Dr. S. L. Hora referred to the case of an Indian Gentleman, now resident in London, who used to collect old China from the Calcutta bazaars. For his collection of plates, purchased for about Rs. 600, a wealthy American offered him Rs. 60,000, with the proceeds of which the seller went to London, purchased a house, and settled there. This would show the remunerative value of the hobby of collecting old China.

Mr. Van Manen replied that the theory of production in China for Tibet was one difficult to accept, as the Chinese pilgrims, depicted on the plates, are not venerated in Tibet. During the Thang dynasty (618-905 A.D.) the cult of these pilgrims arose and flourished, and representations

of a nature as shown on the plates began to be the subject-matter of painting and sculpture in China. A market for Tibet or for India for these productions was difficult to imagine. The problem of date and origin remained of interest and could not be taken as satisfactorily solved. He himself was not inclined to place faith in the early date given, but would like a more definite answer to the original question.

2. D. N. WADIA. --*Specimens of fossiliferous Limestone of eocene Age associated with volcanic Rocks at the Crest of the Great Himalaya Range, Burzil Valley, Kashmir.*

During the summer of 1934 fairly well preserved marine fossils of comparatively so young an age as the Eocene have been discovered in a belt of igneous rocks which traverse right across the central axis of the Himalaya—the range of mountains in the heart of the Himalaya known as the Great Himalaya range, which separates India from Tibet. These remains indicate that the Burzil area of Kashmir, barely 30 miles from Nanga Parbat, the culminating peak of the Punjab Himalaya, was occupied by an arm of the great sea, somewhat resembling the Bay of Naples of to-day, where a marine fossiliferous limestone is being deposited, intermingled with the products of volcanic eruptions, such as volcanic-ash, lava-flows, tuffs, etc.

An additional interest is lent to the Burzil Eocene rocks by the fact of their relation to the large mass of the Astor granite. This granite occupies several hundred square miles of the mountains between Burzil and Astor, and the Eocene patch occurs as an island floating on the granite with numerous veins of the latter penetrating its strata. The post-Eocene age of this granite, therefore, is definitely established by this association and the fact constitutes an interesting feature in the geology of the Kashmir Himalaya.

Mr. Wadia, in exhibiting the specimens, said that the interest of the Burzil rocks lies in the unusual association of fossiliferous sediments with the products of volcanic eruptions and of plutonic rocks injected from deep-seated centres in the earth's crust. Two inferences arise from this observation :—

(1) That the identifiable fossils, belonging to the genera *Dictyocnoides* and *Orbitolina* definitely date the back-bone of the Himalaya range between Ladakh and Kashmir—the zone of mountains which must presumably have commenced its elevation at the earliest phase of the uplift—as Upper Cretaceous to Eocene.

(2) That the present-day alignment of the Great Himalaya Range of Kashmir is of quite recent origin. We all know that the Himalayas are a more or less effective ethnographic water-shed between India and the rest of Asia; that it is a less effective divide as a water-parting between India and Tibet, but geologists have always believed that the Himalayan axis separates two quite different geological provinces—the Tibetan zone of stratigraphy to the north of it from the Himalayan zone proper to the south. Although there have been noted one or two minor exceptions, no such flagrant example such as the present one is known in which a belt of strata, several miles in breadth, belonging to the Tibetan stratigraphic province, runs across the crest of the central axial range into the Himalayan zone denoted by the Kashmir sedimentary basin. The exception, however, is, I think, more apparent than real and may be explained by the fact that the original crest-line of the Great Himalaya Range of

Kashmir lies to the south of the Burzil valley, the present Indus watershed having been pushed further north during late geological times, Pleistocene or even later. Such northward shifting of the watershed line has been known in many parts of the Himalayas.

The age of the Himalayan granite has been a subject of debate among Indian geologists, various ages being assigned to it. A Tertiary age has been advocated by some authors since General McMahon's day. Absolute conclusive evidence has, however, been lacking in support of the Tertiary view. The Burzil occurrence gives conclusive evidence of the Tertiary period of a portion of the central Himalayan granite. The permeation of Eocene fossiliferous strata by the hornblende-granite (Astor granite) in which it occurs as a detached floating island, is a fact very clearly observed all along the border of the 'island'. These intrusions establish a post-Eocene age, at the earliest, for the Astor granite, which occupies several hundred square miles of the central Himalaya of Kashmir.

Dr. *Fermor* said that this evening the Society had had the privilege of an important announcement by Mr. Wadia. For many years the age of the central Himalayan granites has been a matter of discussion amongst geologists—a subject which was not yet settled owing to the absence, in most cases, of indisputable evidence. During the last season, however, Mr. Wadia had obtained indubitable evidence of intrusive relationship between a certain granite in Kashmir and fossiliferous rocks of Eocene, that is Tertiary, age. As a result of this discovery, he was able to state that the age at least of several hundred square miles of granite in the Kashmir Himalayas was Tertiary, and the Society took this opportunity of congratulating Mr. Wadia upon definitely establishing this important fact.

Mr. *West* thought that Mr. Wadia's observations, while clearly proving the age of that particular granite, a hornblende-granite, threw no light on the age of the well known Central Himalayan Gneissose Granite as suggested by the President. Although C. A. McMahon was of the opinion that the latter was Kainozoic in age, he was never able to produce any definite evidence, and the age of this rock is still unsettled. A hornblende-granite in the Mount Everest Region has been ascribed by Sir H. Hayden and Dr. A. M. Heron to a Kainozoic age, and it is probably similar in character and age to the granite described by Mr. Wadia. Both, however, are entirely different from the porphyritic muscovite-biotite-granite which extends from Garhwal to Nanga Parbat.

Mr. *H. M. Lahiri* asked Mr. D. N. Wadia if in view of the fact that the fossiliferous sedimentary rocks met with by him (Mr. Wadia) in the Central Himalayas occur as an island in the granite, it might be possible that the sedimentary beds were deposited on the eroded granite which latter would, in that case, be much older than the fossiliferous strata and not younger as thought by Mr. Wadia.

Mr. *Wadia* in his reply to Mr. Lahiri stated that the granite mass is found penetrating the sedimentary and volcanic rocks of Burzil.

To Mr. *West* he replied that the hornblende-granite of the area under description is different from the central gneiss of the Himalaya.

Dr. *Heron* said —

I should like to say, in connection with Mr. West's remarks, that in the Darjeeling district and Sikkim, the Darjeeling gneiss seems very probably to be a composite gneiss made up of schists of the Daling series injected along the foliation planes by porphyritic biotite-granite. This type of intrusion is characteristic of the old rocks, and of very deep-seated conditions of intrusion, whereas the other tourmaline and hornblende granites, supposedly Tertiary in age, to the north of the central range, occur in veins and sills. It is thus suggested that the two granites may be very different in age.

L. R. Wager, in his review of the geology in 'Everest, 1933', also puts forward the hypothesis that there are two granites (p. 320). He also makes the interesting suggestion (p. 335) that his Mount Everest Pelitic Series, Carboniferous in age or slightly older, is the equivalent of the Daling series. This, I think, is too great a jump in correlation to take with our present knowledge, and I should prefer at present to consider the Daling series as Precambrian, and as belonging to the Peninsula or Gondwana land.

Mr. D. Bhattacharji, in a written communication handed in at the end of the meeting, suggested the possibility that the granite described by Mr. Wadia might be a reconstituted granite of older age, the reconstitution being due to later tectonic movements aided by the body heat of the earth.

The following papers were read :—

1. L. BOGDANOV.—*The Quatrains of Jalālu-d-dīn Rūmī and two hitherto unknown Manuscripts of his Divān.*

The manuscripts of the Divān of Jalālu-d-dīn Rūmī which contain even a few of his quatrains are not very numerous. Those that include any appreciable number are comparatively rare. Copies of the Divān comprising a complete (or what may be considered as complete) collection of his rubā'is are in-existent in the great libraries of Europe and India. The discovery in Calcutta of a codex of the latter description and, simultaneously, in Northern India, of a fragment of a similar codex, by which a lacuna in the former is completely restored, is of great importance.

Review of our present knowledge concerning the quatrains of Jalālu-d-dīn. MSS. of the Divān in Europe and India. The Constantinople edition. The MS. in the private collection of Raja Bahadur Singh Singhi. Extent. The number of quatrains (1925) exceeds that of the Constantinople edition. The completest MS. known. Description of the MS. The MS. in the private library of the Hon'ble Nawwab Sadr Yar Jang Mawlana Habibur-Rahman Shirwani of Habibganj. Number of quatrains, 620. Description of the MS. Comparative table of quatrains in about 35 MSS. and editions. Total number of quatrains in all collections, 2206. Discussion on nature and metre of the quatrain. Nature of the 'collections' of quatrains. Authenticity of the Constantinople edition and of the new quatrains.

Dr. Fermor in inviting discussion upon Mr Bogdanov's paper remarked that in listening to Mr. Bogdanov he could not help comparing the work of the scholar researching upon ancient manuscripts with that of the geologist, who regards the crust of the earth as an ancient book in which the lessons are written in terms of fossils and minerals. In the present case Mr. Bogdanov, by his study of various manuscripts containing the Quatrains of Jalālu-d-dīn, appears to have attained nearer to completion in reconstructing the original document than was ever likely to geologists except in very rare cases.

Dr. M. Hidayat Hosain said—

Jalāl-ud-dīn Rūmī is the greatest Šūfī writer among Musalmans. Jāmī has called his Masnavī 'A Qur'ān in Persian'. I congratulate

Mr. Bogdanov with his success in the collection of Rūmī's Quatrains and when published they will be read with the greatest interest by all Persianists.

Dr. M. Z. Siddiqi asked—

Is there any common idea, or thought, between the Rubā'iyāt of Rūmī and those of Khayyām?

In reply Mr. Bogdanov said—

The quatrains of these two authors are, in my opinion, entirely different in their purpose and origin. Whilst the quatrains of our author are probably nothing more than a collection of his sayings, in which a mystical teaching was imparted by him to his disciples, and, as such, were taken down by his pupils without any additions or alterations, the quatrains of Khayyām were produced on the spur of the moment, during his hours of relaxation, and taken down not by pupils as a teaching, but by friends and admirers as things of beauty. This, in the course of time, resulted in Khayyām's quatrains becoming mixed up with quatrains by other poets ('The Wandering Quatrains'), whereas those of Jalālu-d-din Rūmī remained intact owing to their isolated position of rather a manual of Śūfism, than of a book of poetry.

2. B. CH. CHHABRA. —*Epigraphical Study of Expansion of Indo-Aryan Culture during Pallava Rule.*

The paper deals chiefly with the earliest Sanskrit inscriptions, in Pallava-Grantha characters, discovered in Ceylon, Malacca, Indonesia, and Indo-China. The author has made some important additions to and alterations in the existing readings, shedding thereby fresh light on the hitherto accepted interpretations and has, at the same time, seriously checked some theories based on what he holds to be misinterpretations. He has, for instance, adduced sufficient evidence against the belief held by some Dutch and French scholars that the expression *siddhayātrā*, occurring in certain inscriptions from Sumatra and Cāmpā, refers to a magic power. The short Cho-Dinh rock inscription is supposed to allude to human sacrifice, but the author does not agree with this view. He further identifies the name *Śrī-Viṣṇuvarman*, appearing on the cornelian seal found at Perak, with the name *Viṣṇu* which occurs on one face of the Ligor stèle inscription as the personal name of the Śailendra king figuring therein. Likewise, in the Chāngal inscription, offering a different explanation of the compound *puruṣapadamahālakṣmabhūte* and reading *-ṅgādīrthā-ṛtam* instead of *-ṅśādīrthā-ṛtam*, the author is convinced to have elucidated the difficult points in this inscription so as to necessitate a considerable change in the deductions made therefrom.

In conclusion, the author traces back, following the epigraphical evidence, the sources and extent of the influence which India exercised in those early days on the countries overseas, mainly with regard to her religion, art, and literature.

Mr. Van Manen congratulated the speaker on his important paper, and welcomed his first contribution to the Society. He expressed his gratification that in Dr. Chhabra another young Indian scholar has

joined the ranks of those Indians who after successful study abroad had come back to their motherland with a thorough knowledge of a continental language, in this case Dutch (not to mention a more common proficiency in German and French). Access to the extensive philological and archæological literature on ancient India in the Dutch language was a most valuable advantage.

He further drew attention to one aspect so strikingly demonstrated by the speaker : An expression was rendered by the speaker as a 'religious devotee', as against the rendering of French scholars a 'sacrificial victim'. This belonged to what might be called the anthropology of textual criticism. The time had almost come that the possible and allowable extent of variation of doubtful interpretation should be systematized and its philosophy formulated by definite and generally valid laws.

Mr. Chintaharan Chakravarti expressed a doubt—

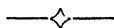
The passage (*Śivo dāso badhyate—vandyate* as emended by Dr. Chhabra), the interpretation of which has been questioned by Dr. Chhabra, is really difficult to be explained. Does the emendation of Dr. Chhabra convey any satisfactory sense? Is it, if not the prevalent reading and interpretation, free from the defect of far-fetchedness?

Dr. Chhabra replied—

The word *dāsa* does not necessarily mean 'a slave'. It can also mean 'a servant', 'a devotee', or the like. We know of a king in Ceylon, who was named *Buddhadāsa*, who was contemporaneous with Bhadravarman, the king to whom the present record belongs. The word *Śivo dāsa* might perhaps be an attribute of that king.

He did not claim to have given a final solution and would like his emendation to be considered as a suggestion.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.



DECEMBER, 1934.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 3rd, at 5-30 P.M.

PRESENT :

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S., M.Inst.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Audon, Mr. J. B.
Bogdanov, Mr. L.
Bose, Mr. M. M.
Brahmachari, Sir U. N.
Brown, Mr. Percy
Darbari, Mr. M. D.
Dikshit, Mr. K. N.
Dods, Mr. W. K.
Fox, Mr. C. S.
Gee, Mr. E. R.
Ghatak, Mr. J. C.
Ghose, Mr. T. P.

Ghuznavi, Mr. I. S. K.
Jenkins, Dr. W. A.
Ledrus, Rev. M., S.J.
Manen, Mr. Johan van
Mukherjee, Dr. J. N.
Olpadvala, Mr. E. S.
Rahman, Mr. S. K.
Rao, Mr. U. Shanker
Ray, Dr. H. C.
Rossetti, Mr. F. F. L.
Vero-Hodge, Mrs. E. H.
Wadia, Mr. D. N.
West, Mr. W. D.

Visitors :

Chhabra, Dr. B. Ch.
Fermor, Mrs.

Gladstone, Mr. John
Majumdar, Mr. B. R.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of seven presentations of books. etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(41) *Huque, The Hon'ble Khan Bahadur M. Azizul*, Education Minister, Government of Bengal, 12, Rawdon Street, Calcutta.

Proposer : L. L. Fermor.

Seconder : Johan van Manen.

(42) *Remfry, The Hon'ble Mr. Justice Charles Oliver*, B.A., LL.B. (Cantab.), Barrister-at-Law, Judge, High Court, 49, Theatre Road, Calcutta.

Proposer : Sir B. L. Mitter.

Seconder : Johan van Manen.

(43) *Wilson, Harry Ellis Chasler*, M.B., Ch.B., D.S., Professor of Biochemistry and Nutrition, All-India Institute of Hygiene and Public Health, 21, Chittaranjan Avenue, Calcutta.

Proposer : L. L. Fermor.

Seconder : A. M. Heron.

(44) *Chatterjee, Sisir Chandra*, M.D. (Edin.), M.R.C.P. (Edin.), D.P.H. (Edin.), Chief Medical Officer, Eastern Bengal Railway, 3, Koila-ghat Street, Calcutta.

Proposer : Sir U. N. Brahmachari.

Seconder : Johan van Manen.

(45) *Kapur, Chooni Lal*, Makermal Colliery, Mari Indus, Punjab.

Proposer : L. L. Fermor.

Seconder : A. M. Heron.

(46) *Weston, Arthur Tom*, M.Sc. (Vict.), M.Inst.C.E., M.I.E. (Ind.), Director of Industries, Bengal, United Service Club, Calcutta.

Proposer : L. L. Fermor.

Seconder : A. M. Heron.

(47) *Brahmachari, Phanindra Nath*, M.Sc., M.B., 82/3, Cornwallis Street, Calcutta.

Proposer : Sir U. N. Brahmachari.

Seconder : Johan van Manen.

(48) *Burt, Bryce Chudleigh*, C.I.E., M.B.E., B.Sc., I.A.S., Agricultural Expert, Imperial Council of Agricultural Research, 1, York Road, New Delhi.

Proposer : L. L. Fermor.

Seconder : S. L. Hora.

(49) *Gladstone, John*, Assistant, Messrs. Gillanders Arbuthnot & Co., Ltd., 8, Clive Street, Calcutta.

Proposer : W. K. Dods.

Seconder : L. L. Fermor.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members, who had, since the last meeting, been suspended as defaulters within the Society's building, had now been removed as defaulters from the Society's registers for non-payment of dues :—

Jogesh Chandra Bose.
Harit Krishna Deb.
M. S. Mani.
Sham Lal Kapur.

N. L. Kothari.
Vidyanand Swami.
M. H. Moledina.
Mohammed Amin Abbasi.

The President called upon Dr. S. L. Hora to read an obituary notice of the late Dr. Ekendra Nath Ghosh, written by Dr. Baini Prashad (*vide* page 191).

The following paper was read :—

1. SUNDER LAL HORA.—*Ancient Hindu Conception of Correlation between Form and Locomotion of Fishes.*

It is commonly believed that the ancient Hindus have contributed very little of importance to the development of biology. The author has analyzed the observations contained in a passage of *Suśrutasamhitā* and shown that in those early days (*ca.* 300 B.C.) the Hindus were familiar with the various types of fresh-water habitats of fishes and had observed the influence of habitats on form. They also knew the modes of locomotion in different types of fishes and correlated them with the body forms. The modern conceptions regarding ecological classification of fresh waters and form and locomotion in fishes are discussed and it is indicated that the ancient Hindu ideas concerning these subjects are fully borne out by modern researches.

The author hopes that Oriental scholars will communicate to him references to fishes in old Sanskrit and Pali texts for analysis in the light of modern knowledge.

Mr. Van Manen said that a study of the world's classics though undertaken for entirely different purposes, repeatedly leads to finds of isolated instances of zoological observation. He gave as an example the remarkable passage in Chwang-tsze, a Chinese philosopher who lived about 300 B.C., regarding astivating fishes :

'When the springs are dried up, the fishes collect together on the land. They moisten one another there by the damp about them, and keep one another wet by their slime.' (Translation by Legge, S.B.E., 6, 1; 6, 5, and repeated later on in the same work.)

In quite another direction he would also draw attention to an Academic dissertation by Adolf Palm, published last year, 1933, in Tübingen, consisting of Studies on the Hippocratic treatise *ΠΕΡΙ ΔΙΑΙΤΗΣ*. It deals in large part with a pre-Aristotelian animal classification and contains valuable references to early Greek zoological science.

Systematic collection of all such references would be well worth the trouble. A difficulty would remain. Unless precise modern knowledge enabled the translator to know what exactly to look for, the 'literary' translation would most likely be incorrect. On the other hand there would also be a danger of considerable import that a prior knowledge

of modern data might influence the translation of such ancient statements. There would be a temptation, or even tendency, to read meanings into the text which the text by itself, without independent outside knowledge, might not yield.

Dr. W. A. Jenkins asked :—Does the information given indicate merely accurate observation, or is it knowledge arising from an understanding of the scientific laws operating in producing particular forms under particular conditions ?

Dr. S. P. Agharkar remarked :—The information contained in the verses from Suśruta shows clearly that the ancient Hindus were able to draw general conclusions regarding the form and habitat of fishes. As these generalizations are found to be correct by modern researches one can safely assume that the ancient Hindus have made systematic observations on the commoner fishes known to them.

Mr. U. Shanker Rao, in a written note drew attention to the fact that Dr. Hora's quotation showed that the ancient Hindus had made at least incipient observations concerning what now-a-days would be called the stream-lining of fishbodies.

Dr. Hora, in reply to Dr. Jenkins' enquiry stated that he has not made an extensive study of the biological knowledge possessed by Ancient Hindus. The present note was meant as a request to Pali and Sanskrit scholars to bring to his notice references in ancient texts bearing on biological knowledge. It would then become possible to state whether the Hindus had a sound knowledge of the animal kingdom or had made only stray observations. So far as the present paragraph from Suśruta was concerned, there was no doubt that the Hindus had made a series of different types of observations to correlate the form, habitat and mode of locomotion of fishes.

The following exhibits were shown and commented upon :—

1. K. N. DIKSHIT. *Four Coins.*

A gold coin of a new ruler named Vira Simha who was probably a Kachchhapaghata prince of Narwar in Gwalior State is exhibited. It shows on the obverse an unusually spirited representation of a galloping horse with a rider and the whole of the reverse is occupied by the legend which imitates the style of Central Indian issues of the Chedis. The coin is unique and belongs to the 11th century A.D.

A bilingual silver coin of Sultan Mahmud of Ghazni is another of the exhibits. On one side occurs the usual Arabic legend and on the other, both in the centre as on the border, is seen a legend in Nagari characters. Much interest is attached to the translation of the Kalima which is rendered as '*Ayaktam ekam Muhammadā Avatāra*'. The anxiety of the early Muhammadan rulers of India to keep in touch with their subjects and to imitate Hindu types of coins is illustrated by a base gold issue of Muhammad bin Sam. Here the obverse shows the Goddess Lakshmi as on the coin of the Rathor ruler Govinda Chandra, while the reverse shows the name of the ruler written in bold Nagari characters.

The last coin is a unique copper issue of Barbak Shah, an independent ruler of Bengal. Before the Mughal conquest of Bengal, there were hardly any copper issues current in Bengal, both in Hindu and Muhammadan times and it is apparent that

all the small transactions were carried on by means of some currency like cowries or areca-nuts.

Dr. Hem Chandra Ray said :—I accept the speaker's suggestion that the unique gold coin of Virasimha does really belong to the *Paramabhāṭāraka-Paramēśvara Parama-Vaiṣṇava-Paramabrāhmaṇyo* Virasimha, the Kacchapaghūta ruler of Nalapur (mod. Narwar) whose Narwar grant is dated in V.S. 1177 (c. 1120 A.D.). See my *Dynastic History of India*, Vol. II, pp. 833ff. The date of the coin must in this case belong to the 12th century and not to the 11th.

As to the bilingual coins of the early Muslim rulers, some of them containing the portraits of a seated Hindu goddess, I draw attention to the bilingual issues of the Indo-Greek kings. Administrative necessity compelled both groups of these rulers to use Indian script and retain other Indian traits of Indian coins. These facts show that the early Muslim rulers were not blind and fanatical iconoclasts as they are often painted in late Muslim Chronicles and in modern text-books. In this connection I refer to the fact that Sultān Maḥmūd of Ghazni employed a Hindu general named Tilak and allowed him freedom of worship in his very capital.

Dr. B. Chhabra asked :—Can we interpret the word which has been read as 'ṭankam' in the same sense as Mr. Dikshit has in the present instance taken ?

Dr. U. N. Ghoshal asked :—(1) Is this combination of the Gaṅgeyadeva Kalachuri type with the Horseman type quite unique ?

(2) What is the reading of the Sanskrit equivalent of Hijrah on the unique coin of Sultān Maḥmūd ?

Mr. K. N. Dikshit, replying to the points brought up in the discussion by Drs. H. C. Ray and B. Ch. Chhabra, said, that Virasimha, the ruler who issued the first coin under discussion, was the first to adopt the arrangement found on the later coins issued by Malaya Varman and Chahadadeva, in which the horseman type of the North-west was combined with the style of writing of Central India. As he lived about a hundred years before the rulers mentioned above, he must be given the credit of having initiated this type. The date of Virasimha is undoubtedly to be taken as the first quarter of the 12th century and not the 11th century A.D., as stated in the abstract.

As regards the bilingual silver coin of Sultan Maḥmūd, a distinct attempt is traceable at translating all the words in the Arabic legend into Sanskrit ; thus, *Bismillā* is translated as *Avyaktīyanāmā* ; *ḥaḍa-ul-durham* is translated into *Ayam ṭankam*, and *Ḥarb* into *Hata*. This is the first time that this word 'hata' has been used to express the sense of striking a coin.

Replying to Dr. Ghoshal, the speaker said that his tentative reading for what appears to be the translation of the word Hijra is *Madināyana* (transition from *Madinā*).

2. CYRIL S. FOX.—*A portable Electroscope for ascertaining the Radio-activity of spring Waters, natural Gases and Minerals.*

The ordinary electroscope is sufficiently well known to require no detailed description. A gold or aluminium leaf diverges from its support when both, carefully insulated, are electrostatically charged. The normal charge is roughly 350 to 400 volts. The leaf slowly collapses again due to a gradual loss of charge by leakage from various causes—moisture, not absolutely perfect insulation, cosmic rays, etc. Dry air is the best insulator known, but it may be rendered conductive by ionization due to the introduction of a radio-active substance.

The rate of fall of the gold or aluminium leaf in a normal slow manner is always ascertained and is recorded as the natural leakage of the apparatus. If then a known weight of a known radio-active substance is introduced the rate of fall of the leaf (caused by the ionization of the air round the insulated leaf and its support) less the natural leakage gives a measure of the radio-activity for comparison with other radio-active substances which are to be tested.

The most useful substance for examination in an electro-scope is the element RADON, originally known as the emanation of radium. It is a heavy gas and strongly radio-active. Out of association with radium its half period is about 4 days, while radium always has radon in fullest equilibrium with it after about a month from the time when all radon was removed from it. Radon is very soluble in water and is frequently met with in mineral springs and can be readily detected by the electro-scope.

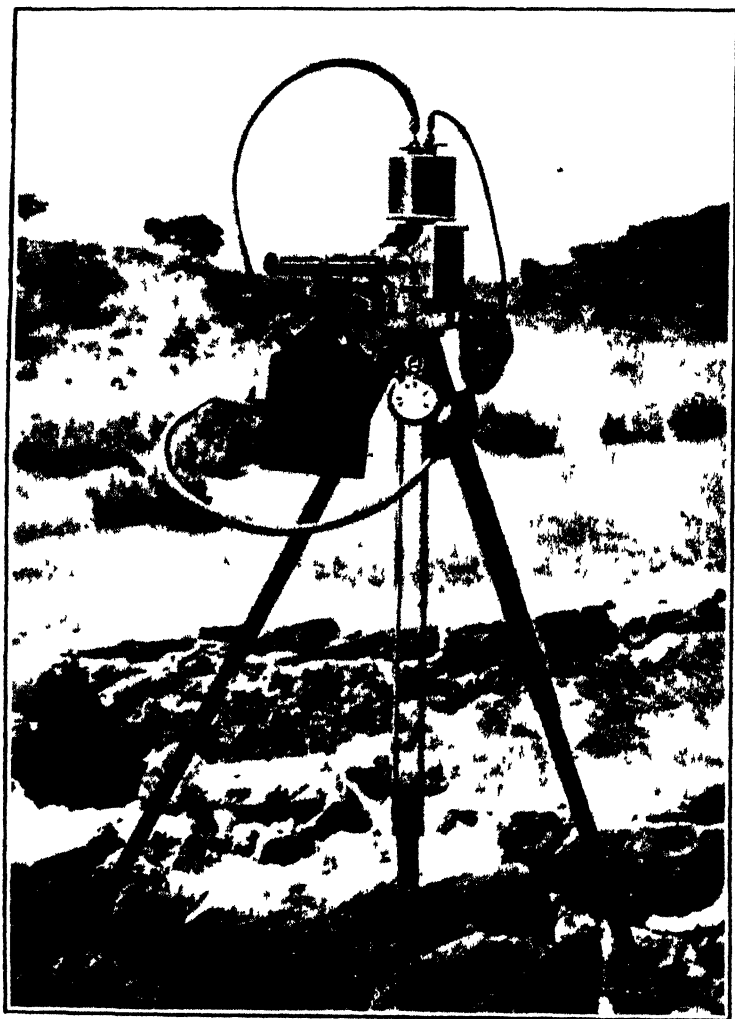
The normal procedure is to take a definite quantity of the spring water and after strong agitation in a special vessel the gas evolved is passed into a suitable chamber in the electro-scope. The natural leakage of the apparatus having been previously determined the rate of fall of the leaf due to the introduction of the radon forced out of the water is next taken. The difference is due to the radon and this compared with a standard gives the radio-activity of the water in terms of radium.

There are naturally a number of corrections and other calculations to be made before the final estimate is obtained, but for this field apparatus these are reduced to a minimum by the design of the vessels and electro-scope employed. The electro-scope which is on view was used by the author a few weeks ago in Abyssinia in an examination of several mineral and thermal springs. The investigation so far as the author knows is the first of its kind outside Europe and no instrument of this type is available in England or India at the present time.

It may be mentioned in passing that very hot springs are not likely to contain radon as the gas is not retained by the water if the temperature exceeds 150°F . On the other hand true radium carrying waters are very rare because radium salts are relatively insoluble and are precipitated as the water cools. The author will explain the method of using this apparatus for examining powdered minerals and rocks while describing the instrument.

Dr. Fox before exhibiting the Field Electro-scope, explained that the apparatus had been charged before 5.45 P.M. and that at 6.30 P.M. the fall of the leaf had been from 8.5 on the scale to 8.0 which corresponds to 3.0 volts and works out to a natural leakage of about 1.11 millivolts per second. He then briefly described the apparatus and explained the mode of working. A photograph of the apparatus is shown herewith.

Dr. *W. A. Jenkins* asked whether any control experiments with distilled water alone were employed. He expressed the view that moisture might so seriously affect the working of the apparatus, say during the



The Field Electroscope at a Spring in Abyssinia.

rainy weather in Calcutta, as to render it unreliable. He also gave it as his opinion that when working with strongly radioactive waters (charged with radon) the decomposition solid products of radon might render the apparatus unreliable for a considerable time afterwards and so give erroneous results if tests were made too soon after.

Mr. T. P. Ghosh asked if the Vichy and Evian and other waters sold in India contained radio-active matter. He stated that he consumed a dozen or such bottles of Evian water a week. He would like to know if the beneficial effects of such waters was due to radioactive matter, if any, contained in them.

Dr. C. S. Fox replying to Mr. T. P. Ghosh stated that he was not aware that any of the types of table waters mentioned had any radium element in them, but thought they had none. He thought that they may, at the springs where the bottles were filled, originally contain some radon, but as this element entirely disappears within a month it was unlikely that the beneficial effects of the waters could be due to radio-active matter.

Dr. Fox in replying to Dr. Jenkins said that it was not usual to do any control experiment with distilled water, but that it was rare that such a test was ever omitted. It was an essential feature that the natural leakage was determined before each test of a water or gas. Dr. Fox had not found, in the course of his recent work, any serious effect produced by the moisture in the gas introduced into the ionization chamber. He then conducted an experiment with an Abyssinian water which had been collected more than a month ago. He said it could not contain any radon of the original sample but if containing radium might show traces of radon formed since the sample was collected. The results showed that the fall of the leaf was barely 0.6 volts in 6 minutes or roughly 1.66 millivolts per second. This is not much more than the natural leakage and the difference can be ascribed to the moisture.

In regard to the question of the solid radio-active products of radon, which are left when a 'strong' water or gas is used, Dr. Fox stated that the fall of the leaf was so rapid that three observations (by re-charging) could be performed in ten or fifteen minutes, after which the air in the ionization chamber could be blown out and freed from these disturbing products. He had done this frequently and found that after three or four blowings the natural leakage was brought within the limits normally allowed for field work. If the natural leakage was above the limit it became necessary to open the apparatus and wipe the ionization chamber with alcohol and so restore it.

Before closing his experiments Dr. Fox passed radon from a dilute radium solution into the ionization chamber. The fall of the leaf was roughly 3.0 volts in 4 minutes 10 seconds, which is 12 millivolts per second, an amount much less than some of the waters he had tested in Abyssinia. He reminded his audience that it was a portable apparatus for intelligent use under conditions where a more elaborate instrument was not available and was to be used with care under as dry conditions as possible. The points raised by Mr. Jenkins were not found of serious effect in the field if the apparatus was fairly treated and the natural leakage carefully taken.

3. J. N. MUKHERJEE.—*A useful Method for rapidly determining the p_H of turbid Solutions*

On account of the lateness of the hour this exhibit was postponed till next meeting.

The President announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

OBITUARY NOTICES.

DR. ERNST HARTERT.

(1859-1933.)

The sad death of Dr. Ernst Hartert on November 10 at Berlin is sadly deplored by this Society in common with the whole ornithological world, as it was only at the Annual Meeting last year that he was awarded the Joy Gobind Law Memorial Medal of the Society for his valuable researches. It may be noted that he was the second recipient of this Medal, the first award being made in 1929 to Prof. Max Weber of Holland.

Hartert was born in Germany and spent most of his youth in East Prussia, where he was educated. In 1892 he migrated to England and was appointed Director of the Rothschild Museum at Tring and continued to hold this appointment till his retirement in 1930. Though he spent 38 years in England he retained his natural German characteristics, but these were not of an aggressive type which is usually associated with Prussia. Though a foreigner, he achieved a remarkable amount of success as an ornithologist and a museum administrator in England and this can only be explained by his strength of character, tenacity of purpose and soundness of judgment, all of which were reinforced by his intense sincerity and keenness and his constant readiness to help and advise and, above all, by his original and very likeable—one may almost say, lovable—personality.

Hartert's greatest achievement was the building up of a marvellous collection of birds at Tring, which unfortunately since his retirement has gone over to America and is no longer available at Tring which as a result of Hartert's labours had become the 'Mecca' of all ornithologists. This remarkable collection—a little more than 280,000 skins—was not built up only by the expenditure of a great deal of money but was the result of continuous and persistent search and organization, year in and year out, to determine what gaps existed in the collection and how they could be made up. The collection was particularly complete in Palaearctic birds and formed material for Hartert's monumental work entitled 'Die Vogel der paläarktischen Fauna' which was started in 1903 and completed in 1922. Two supplements to this valuable work were issued in 1932-33. In this connection it may be mentioned that Hartert was the pioneer ornithologist who believed in Geographical forms or subspecies as a part of the natural scheme of classification, and in his works he introduced the grouping of these forms

by means of trinomial nomenclature governed by rules of strict priority. This was originally received with great opposition, but is now universally adopted.

Hartert's work in connection with the organization of the Tring Museum and the publication of that valuable organ of that Museum—'Novitates Zoologicae'—has also to be mentioned. In various volumes of this Journal he himself described hundreds of new forms of birds from all over the world, while his name has been perpetuated in a large number of birds described by others.

He was the mainspring in reviving the International Ornithological Congress and was elected as the President of the first post-war Congress at Copenhagen in 1926. I had the occasion of paying a visit to Tring earlier, but it was in 1926 and later in 1930 on the occasion of the International Congress meeting at Amsterdam that I came to know Hartert personally. His loss to the ornithological world is very severe indeed and it is a matter of great regret that so soon after the award of the Joy Gobind Law Memorial Medal to him he should have passed away. May his soul rest in peace !

B. PRASHAD.

(Read in the Ordinary Monthly Meeting on 5th March, 1934.)

MM. PANDIT KAMAL KRISHNA SMRITITIRTHA.

(1870-1934.)

The passing away of MM. Pandit Kamalkrishna Smrititirtha of Bhatpara on the 25th of January, 1934, at the age of 64 is an irreparable loss to the men of letters in Bengal. It is a loss which has particularly affected the Pandit community of Bhatpara and the Asiatic Society of Bengal of which he was an Associate Member and an editor in the *Bibliotheca Indica* Series. Kamalkrishna Smrititirtha was a Sanskritist, brought up under the ancient Tōl system but also familiar with modern critical methods. His connection with the Society was a very intimate one, extending over more than four decades (1891-1934).

His activities in connection with the Bhatpara Sanskrit College, the Calcutta University, the Hitavadi and the Oriental Institute of Baroda may be briefly summarized here. Just on the establishment of the Bhatpara Sanskrit College in 1900, Kamalkrishna, a young man of thirty and already a *Kavyatirtha*, was appointed a Professor of Kavya (Sanskrit Literature). In 1906, he became a Smrititirtha by passing the Government Title Examination and was elevated to the post of Professor of Smriti (Hindu Law) in that very College, which status he

retained till the day of his death. He won the Jogendra Research Prize of the Calcutta University in Comparative Indian Law of the year 1927 and his thesis which was written in Bengali was entitled 'A comparative study of the Law of Evidence according to the Smritis'. The thesis has been published in the *Journal of the Department of Letters*, Calcutta University, Vol. XX, 1930. The University of Calcutta also appointed him as an external examiner in M.A. Sanskrit since 1929. He also edited two Sanskrit works with Bengali translation for the Hitavadi Press of Calcutta, viz. Agastya Saṅghita and the latter half of Kalhana's Rājatarāṅgini. The connection of Kamalkrishna with the Oriental Institute of Baroda was set up in 1928, when the Government of Baroda appointed him to be editor of the Daṇḍaviveka, a 16th century Hindu Penal Code of Mithila, for the *Gaekwad's Oriental Series*. The work saw light in 1931 as work No. LII of the G.O.S. and His Highness's Government further sanctioned the publication of Rājadharmā-Kaustūbha, a Smṛiti work of the 17th century, under his capable editorship. But ere the work could be completely published, Kamalkrishna died.

It now remains to describe in detail Kamalkrishna Smṛititīrtha's activities in connection with the Asiatic Society. Kamalkrishna crossed the thresholds of the premises of the Society early in 1891 and served for a period of six months as a proof-reader of the Sanskrit portions of the Sanskrit-Tibetan Dictionary of Rai Bahadur Sarat Chandra Das, C.I.E., which was then passing through the press. In 1897, he accompanied Pandit (afterwards MM. Dr.) Haraprasad Shastri in his first visit to Nepal for the search, cataloguing and purchase of rare Buddhist Sanskrit MSS. on behalf of the Asiatic Society of Bengal. In 1900 he was appointed an editor of Smṛiti MSS. for the *Bibliotheca Indica* Series and the official letter to that effect was signed by Frederic Eden Pargiter, one of the Past Presidents of the Society who was then officiating as the Honorary General Secretary. The task of editing as many as nine Smṛiti works and one astronomical work for the *Bibliotheca Indica* Series engaged him for more than three decades (1900-1931) and is a glorious achievement which will carry his name to distant posterity. His Excellency the Earl of Lytton who invested him with the title of Mahāmahopādhyaya in 1926 truly remarked that he had 'rendered signal services to Sanskrit learning by editing in the *Bibliotheca Indica* Series some of the rarest works of Smṛiti and a work on Astronomy, and no less an authority than the Asiatic Society of Bengal has shown its appreciation of his merit by making him an Associate Member. The nine Smṛiti works edited by him are Pre-Raghunandana digests of Bengal and Bihar, written from the 11th to the 16th century by four famous jurists, viz. Aniruddha Bhattacha, Candeswara Thakura, Vācaspati Misra and Govindananda

Kavikankanacārya. Of these nine works, Aniruddha Bhaṭṭa's *Haralata*, a work on ceremonial impurity, is one of the earliest digests of the Bengal School, its author being a scholar of the court of the king Vallala Sena.

The man Kamalkrishna Smrititirtha was even greater than the scholar. He possessed a great capacity for impressing everybody he came in touch with. He was a good orator in Bengali and an extempore composer of Sanskrit verses. He was an orthodox Brahmin Pandit of the Vasishtha family of Bhatpara (24 Pergs.) which had settled there three centuries back and 'was famous for its learning and piety'. He dearly loved his family and tried to uphold its high traditions. He compiled in Bengali a comprehensive genealogical history of his family extending over three centuries, entitled *Bhattapalli-Vasishtha-Vamsaparicaya*. Such was the man Kamalkrishna Smrititirtha; and he was more. He was also the teacher of nearly hundred Sanskrit Pandits and the spiritual preceptor of hundreds of Brahmin families of Bengal. By his death the Society loses not only a prolific editor but also a valued member.

BHABATOSH BHATTACHARYA.

(Read in the Ordinary Monthly Meeting on 5th March, 1934.)

SIR P. C. MITTER.

(1875-1934.)

Sir Provash Chandra Mitter, whose death the Society mourns, was one of the many distinguished Bengalis, who joined the Society during the Presidency of Sir Rajendra Nath Mookerjee in the years 1924-25, when unprecedented numbers of the Calcutta intelligentsia and aristocracy came forward to show interest in the Society's labours by taking up membership in it. Officially Sir Provash took no active share in the Society's work, but on many an occasion he gave unstinted assistance by ripe advice and by exercising his great influence. The career of Sir Provash was a brilliant one. He joined the Calcutta High Court as a Vakil in 1897, and in 1924 became an Advocate in the same Court. Though a very successful lawyer, he was known throughout Bengal more for his political than for his legal activities. He may in effect be described as the leader of the liberal party, distinctly moderate in politics. He was one of the members of the Rowlatt Committee and came to the Bengal Legislative Council in 1916. From 1921 to 1924 he was a Minister, holding the portfolio for education, and during 1927-28 he was Minister for local self-government. In 1928 he was appointed member of the Governor's Executive Council

of which at the time of his death he was the Vice-President. In 1919 he was made a C.I.E., in 1924 he was Knighted, and in 1933 the distinction of K.C.S.I. was conferred upon him. He was a delegate to the Round Table Conference in London in 1930-31 and in 1931-32.

He died suddenly of heart failure, without any previous warning, on the 9th February, 1934, at about 2-15 in the afternoon, after having as usual performed his work in the morning to about 1-30 p.m.

This is not the place to discuss or estimate the work of Sir Provash in the fields of politics and government service. As said, his official contact with the Society was but small, though his interest in it as representing a fine old intellectual tradition in Bengal was genuine. It is more as a man and friend that we here wish to commemorate his memory. In his youth active sympathies with such diverse forms of idealism as the theosophical campaign of Colonel Olcott, and of the political campaign of Surendranath Banerjee, were indications of a fundamentally idealistic element in his nature. It has been rightly said of him : ' Sir Provash Mitter's generosity of outlook brought him into contact with many movements and causes and his was not the temper that refused sympathy and help when he saw that the aim was good. Such leisure as he had—and he managed to find some—was gladly given to them, his time and knowledge were at their service. Difficulties were removed by his knowledge, practical wisdom and capacity for influencing others. No labour was too great when the cause was good. He had a gift for getting on with people and those who quarrelled with him liked him as they said their hard things.'

The writer of these lines recalls the many intimate talks he had the privilege of having with Sir Provash, when he freely expanded and spoke of his deeper views of life and death, the world and his country. He had an extraordinary winning side to his nature, notwithstanding his decisive resoluteness in practical affairs. The writer recalls with melancholy feelings how the evening before his death he met Sir Provash as usual in the Club over a homely game of bridge, after which a pleasant little talk was the last contact with Sir Provash alive, without any forebodings of the blow that was to fall next day.

A chorus of esteem, affection and appreciation for the deceased was sung when the calamity became known. Bengal and the Society can ill afford the loss of so valuable and lovable a man as the late Sir P. C. Mitter, and we for our part wish to pay tribute to his memory in great affection and great respect.

JOHAN VAN MANEN.

(Read in the Ordinary Monthly Meeting on 5th March, 1934.)

SIR C. C. GHOSE.

(1874-1934.)

In 1924, only one month after Sir P. C. Mitter, who also died in the present year, Sir Charu Chandra Ghose joined the Society as a Member. His was a distinguished career. He joined the Calcutta High Court as a Vakil in 1898. In 1907 he became an Advocate. In 1919 he was elevated to the Bench. On four different occasions he officiated as Chief Justice of Bengal. Early in 1934 he retired from the Bench and almost immediately after was appointed a member of the Bengal Executive Council in place of the late Sir P. C. Mitter. He held this office till April, when for reasons of health he was obliged to resign. Sir C. C. Ghose took an active part in the affairs of the Asiatic Society of Bengal. He joined its Council as a member in 1926 and served as such for three consecutive years. In 1929 he became a Vice-President. The next year he retired from the Council under the Rules of the Society, but rejoined it again as Vice-President in 1931. In 1932 he was elected President and re-elected in 1933. In July 1933 reasons of health forced him to resign, much to the regret of the Council. In 1934 he was, however, persuaded once more to accept a seat on the Council as a Member in the hope that the attendant duties might not prove too arduous for him, but most unfortunately he was once more obliged to give up his post on account of growing ill-health. As President he delivered in 1933 an instructive and well-documented address to the Annual Meeting of the Society on the Evolution of Jurisprudence and of Justice according to British ideas in India.

Sir C. C. Ghose's services on the Bench have been highly appreciated in legal quarters, and it has been said of him that he filled a large place in the public life of Bengal. On the administrative side of the High Court he was a tower of strength and independence and a mine of information.

Sir C. C. Ghose was equally highly appreciated as a Member of Council and President of the Society. His quiet prestige, his affability and tact, smoothed over many a difficulty and always worked constructively. An excellent Chairman, with broad views, he exercised a strong influence for harmony, unflinchingly resulting in positive work. His heart was to a large extent in the history and philosophy of his beloved law, and next literature in its widest sense claimed his love. The disease, which ultimately took him from us, made him seek medical help in Europe shortly before he died, with initially apparently beneficial results. The aggravation of his complaint soon after his return became, however, evident, and it was both a symbol of his interest in the Society's affairs, and an example of his self-sacrifice that he accepted his final term as a Member of the Council. None of us realized during this last term of service

on the Council how deep-seated was the illness from which he suffered, and his demise was a great shock to his many friends within and outside the Society.

The relations between the Asiatic Society and the Calcutta High Court have been many and varied, and Sir C. C. Ghose has been amongst its very distinguished representatives to take an active and valued share in the Society's labours. Personally, the writer of these lines has cause to remember several acts of graceful tact and courteous kindness on the part of Sir C. C. Ghose, and he has always been strongly impressed by his suavity of manner and friendliness of outlook. A good friend of the Society, a valued supporter of good causes and a distinguished son of Bengal has been lost in him. His memory will be cherished and the Society feels proud to have numbered him amongst its Presidents. We express our deeply affectionate regards for our late guide and friend whom we shall miss so badly.

JOHAN VAN MANEN.

(*Read in the Ordinary Monthly Meeting on 5th November, 1934.*)

EKENDRA NATH GHOSH.

(1884-1934.)

The Society has to mourn the death on the 15th of October, 1934, of one of its very active members, Dr. Ekendra Nath Ghosh, Professor of Biology, Medical College, Calcutta. Ghosh joined the Society in February, 1918. A large number of his papers were published by the Society; his last paper entitled 'An Experimental Study of the Asphyxiation of some Air-breathing Fishes of Bengal' was published as recently as the 11th October, 1934.

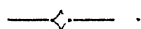
Ghosh was born on 3rd of January, 1884. He passed the First Arts Examination from the General Assembly's Institution in 1901 and joined the Medical College of Calcutta as a medical student. After a brilliant career in the Medical College he passed the L.M.S. examination in 1906 and entered the Department of Biology as Assistant Professor in 1908. He passed the B.Sc. and M.Sc. (Zoology) examinations in 1911 and 1914 respectively, and the M.D. examination in 1916. In 1913 he was awarded the Griffith's prize for his paper on the 'Nervous System of *Ampullaria globosa*'. On the retirement of Lt.-Col. R. E. Lloyd in 1917 he was appointed Offg. Professor of Biology in the Medical College of Calcutta and was later confirmed in this post. He held this appointment till the date of his death.

Though essentially a biologist and physician, Ghosh had a versatile personality and this was reflected not only in his biological work but also in his studies on Ancient Sanskrit Shastras, Ayurveda and Hindu Astronomy. He published valuable contributions on these subjects in various journals both in India and abroad. Personally he was a man of very unassuming character, a sincere friend, and a sympathetic teacher. His loss at the early age of 50 will be mourned by his large circle of friends and by the Asiatic Society.

BAINI PRASHAD.

(Read in the Ordinary Monthly Meeting on 3rd December, 1934.)

PROCEEDINGS OF THE MEDICAL SECTION MEETINGS, 1934.



SEPTEMBER, 1934.

A meeting of the Medical Section of the Asiatic Society of Bengal was held on Tuesday, the 4th, at 6 P.M.

PRESENT :

LT.-COL. R. KNOWLES, B.A., M.R.C.S., L.R.C.P., I.M.S.,
F.A.S.B., Vice-President, in the Chair.

Members :

Brahmachari, Sir Upendranath	Chopra, Lt.-Col. R. N.
Cooper, Mr. H.	Khambata, Dr. R. B.
Pasricha, Captain C. L.	

(There were 39 visitors present.)

The minutes of the last meeting were read and confirmed.

Lt.-Col. R. Knowles, B.A., M.R.C.S., L.R.C.P., I.M.S.,
F.A.S.B., read the following papers :—

1. *Mosquito Density and Mosquito-borne Diseases in Calcutta City.*
2. *Nuclear Division in Malaria Sporozoites.*

Col. Knowles said :—

(1) During a period of four years the density of breeding of *Anopheles stephensi* in the centre of Calcutta city has been kept under close observation in an area one square mile in extent around the Calcutta School of Tropical Medicine. This species of mosquito pullulates in almost every receptacle for water storage throughout the city, especially in masonry tanks and overhead galvanized iron cisterns on the roofs for the filtered and unfiltered water supplies. Out of 11,927 examinations during four years no less than 33 per cent. gave positive results.

(2) The correlation of the monthly incidence of *A. stephensi* breeding with the meteorological conditions in the city is shown (the latter figures being from the means of twenty years' records at Alipore). The maximum breeding occurs in July and the minimum in April.

(3) During the same four years the density of breeding of *Aedes aegypti* in the same area has been under observation. The chief breeding sites are the same as those for *A. stephensi*. Out of 11,927 examinations of such sites no less than 41 per cent. gave positive results. The greatest intensity of breeding was found during July and August, and the lowest in February and April.

(4) The breeding of *Culex fatigans* throughout the same area was observed for two years. The chief breeding sites are the same as those of *A. stephensi* and *A. aegypti*. Out of 4,339 examinations of suspected

breeding sites 8 per cent. gave positive results. The greatest intensity of breeding was found in November and the lowest in July.

(5) Many residents of Calcutta city acquire malaria during visits to the mofussil. There is continuous and heavy importation of malaria into the city by immigration from heavily endemic areas in Bengal. The local strain of *A. stephensi* can be very readily infected experimentally with malaria. Meteorological conditions for malaria transmission are suitable over a large part of the year. Yet at present malaria is but little endemic in the city. What are the reasons for this discrepancy?

(6) The chief reason for the low endemicity in Calcutta appears to be that the maximum density of *A. stephensi* breeding (July-August) fails to coincide with the chief incidence of malaria cases (October-November), and especially of gametocyte carriers (December). Details are given with regard to all three species of malaria parasite, and conditions in Bombay and Calcutta are contrasted.

(7) The maximum peak of *Aedes aegypti* breeding is in July and August; and this corresponds to the maximum intensity of fresh infections with dengue (August and September). Here the correlation is almost perfect. This accounts for the devastating epidemics of dengue which so often sweep the city and cause enormous financial loss.

(8) New admissions for filariasis are at a fairly uniform rate throughout the year (general filaria rate: 9.5 per cent.). The most favourable period for transmission is during the monsoon (July-September), when the intensity of breeding of *Culex fatigans* is at a very low level. The peak for *Culex* breeding is in November, when conditions for filariasis transmission are rapidly becoming unfavourable. This want of coincidence keeps the filariasis rate at a relatively low level.

DISCUSSION.

Dr. C. Strickland—

I think we must all have realised from Col. Knowles' interesting lecture (which I wish to thank the Society for giving me an opportunity to listen to) what a great number of factors go to make up the malaria incidence in the community.

In this connection I would like to tell you of one or two matters which I think Col. Knowles did not mention and which have been elucidated by Dr. Roy and myself in the course of a survey of the adult anopheline prevalence in Calcutta.

In this survey we found a rather irregular monthly distribution of the mosquitoes though Dr. H. P. Choudhuri has found there was a definite positive correlation between our catch and the absolute humidity and maximum temperature, so that in October and November there was a great rise in the mosquito prevalence. We also found that about twice as many anophelines were caught in the mornings between 6-10, as in the evenings from 4 to 8.

Of the total catch 90 per cent. were *A. rossii* or *A. vagus* which probably are of small importance in the malaria incidence.

Of the remaining 10 per cent., about 3 per cent. (or 273 ♂ and ♀) were *A. stephensi* and these were found mostly in September (i.e. somewhat before the general anopheline increase) corresponding with what Col. Knowles has told us of the time of breeding of this species in the rains. This breeding time, Dr. Roy and I confirm and moreover we have found that not only that but they hatch out more readily in the rains than in the hot or cold weather.

We caught 3 *funestus* and 3 *ludlowii* in the year.

Regarding Col. Knowles' statement that *ludlowii* is a worse carrier than *stephensi*, I am not quite sure whether he meant epidemiologically or from the point of view of potential infectivity. If the former, perhaps we can agree with him as I have seen some fulminating epidemics caused by *ludlowii*, worse perhaps than any epidemics caused by *stephensi*, but

I cannot agree with the latter interpretation as Dr. Roy and I have found *stephensi* 100 per cent. infective (in the cold weather) in Calcutta, and no mosquito can be worse than that.

Dr. Lal—

We are grateful to Col. Knowles for giving us a bird-eye view of the malaria problem in Calcutta. Being to a certain extent familiar with similar problems in the Punjab I am specially struck with the absence of any reference to *A. culicifacies* which is as much, if not more, formidable a malaria carrier in that province as *A. stephensi* and which breeds in just the type of places as *A. stephensi* does here.

The lack of correspondence between *A. stephensi* breeding season and malaria incidence, brought out by Col. Knowles is of special interest. The lecturer suggests the importance of a study of zoophilism in this connection. It appears doubtful that zoophilism will be found to play an important rôle under urban conditions such as we have here. For one thing, the seasonal prevalence of adult mosquitoes cannot be wholly inferred from the presence of larvæ. One must also know something of the average length of life of the adult insects. Among other factors the possibility of a want of correspondence in seasonal prevalence of mosquitoes and the period of favourable ratio of male and female gametocytes in the human host (which is also liable to seasonal variation) may be considered. The non-specific immunity in the population specially exposed to mosquito bites (due to economic conditions) may be worth considering and a comparative study of the affected communities in Bombay and Calcutta may possibly be of some interest.

Dr. R. O. A. Smith—

A. stephensi were responsible for the malaria prevalent in Bombay city. Their chief breeding places in Bombay were in wells, and when these were closed malaria diminished to a great extent. Since the population of Bombay and Calcutta are much alike and also the temperature and humidity, it is strange that *A. stephensi* which is very prevalent in Calcutta has not caused anything like the same amount of malaria. One outstanding difference to my mind mentioned by Col. Knowles was the difference in the breeding sites in Calcutta compared with Bombay. Here they are found breeding in various receptacles, metal, wooden and even glass and in one tank at least that was carefully observed for four years no breeding was detected. Could the differences in the breeding sites and consequently in the composition of the water in which the larvæ lived have anything to do with the prevalence of the malaria infection?

Dr. K. L. Chowdhury —

I am very surprised to hear the remedy suggested by the learned lecturer. He based his conclusions on the observations of one square mile in the most central portion of the city, viz. Ward No. 8. The breeding of mosquitoes was not only related to the supply of water, but also to the disposal of the supplied water. Col. Knowles failed to observe that conditions of the whole city varied so much in different parts. In suggesting the remedy the question of the *A. stephensi* zone of this city alone occurred in his mind. *A. stephensi* zone of this city, corresponding roughly to the sewered area, comprises only about 5,000 acres out of the total area of 20,101 acres, i.e. only one quarter of the whole city. The overhead iron cisterns appeared to him to be the only plague spots of this city, but what about lakhs of masonry cisterns, unserviceable articles, gully pits, cesspits, fire buckets, flower tubs, a few thousands of tanks and ponds, over 12 miles of wide water channels, about 130 miles of open kutchra drains,—all breeding millions and millions of disease-carrying mosquitoes and causing terrible nuisance all over the city? Will a continuous supply of filtered and unfiltered water in the

city solve this side of the problem? How would the problem of *A. ludlowii*, which caused last year a severe outbreak of malaria in Beliaghata, be solved if no larvacides are used to treat the actual breeding places in the locality? One mile of open kutchra drain will breed many more *C. fatigans* than all the iron cisterns taken together. Again, in this hot country, like India, a continuous supply of filtered water will not put a stop to collecting water in masonry cisterns or other receptacles. Col. Knowles' suggestion seems impracticable in another way, viz. it will not be financially possible, I think, for the Calcutta Corporation to extend their filtered water supply from 8 to 24 hours daily while they are already finding it difficult to make an adequate supply during the scheduled hours due to the rapid increase of population in the city. Collection of rain water in odd receptacles, necessity of storing water in fire buckets and on account of some professional demand will not also be remedied in this way.

I would like to point out a concrete instance where continuous supply of water has had an insignificant bearing on the problem of mosquito-control. That is New Delhi, where people enjoy 24 hours' water supply; but in spite of this and absence of wells New Delhi is getting more malaria day by day due to *A. stephensi* and the New Delhi Municipal Board has contemplated to start a Mosquito Brigade.

This statement of Col. Knowles 'malaria is not apparently a very serious danger to Calcutta city' was also very surprising, because the Chief Executive Officer of the Calcutta Corporation stated in the annual report of 1932-33 that new cases of malaria in this city were 14,022 in 12 months as recorded by the Ward Health Associations.

On the whole, Col. Knowles' conclusions are misleading and contradictory to the views held by the other experts who made more elaborate study of the situation.

The methods of control of mosquitoes in this city should, I think, be actually directed in the following lines :-

1. Regular and vigorous house to house inspection for destroying mosquitoes inside premises.
2. Sanitary regulations for taking proper care of water reservoirs.
3. Educative propaganda to the residents of this city.
4. Anti-mosquito measures in all outside water-collections, viz. open drains, ponds, tanks, low-lands, swamps, cesspits, streets, gullies, wells, water-channels, fire buckets, country boats, ships in docks, etc.
5. Careful study and gradual introduction of biological control on mosquito breeding in the tanks and ponds (over 3,000 in number), the existence of which cannot be done away with for economic and industrial reasons and also for water scarcity in the border ward.

Col. Knowles in replying said that he had considered *A. ludlowii* more potentially dangerous than *A. stephensi* from the epidemiological point of view. He agreed with Dr. Strickland that very many factors other than mosquito density were concerned in the malaria problem of Calcutta. The different variation in the number of anophelines caught in the mornings and evenings was a new and most interesting finding. With regard to Dr. Smith's remarks, he had no information with regard to the composition of the waters in the breeding sites; as far as he knew no one in Calcutta had dissected wild *A. stephensi* in Calcutta to find out the gametocyte and sporozoite rates. In reply to Dr. Chowdhury he had certainly not the very slightest intention of belittling the extremely valuable work which the malaria control department of the Corporation was carrying out under circumstances of exceptional difficulty; their work was essential. But he believed that the introduction of a water supply at sufficiently high pressure would abolish at least 50 per cent. of the breeding sites in the city. In stressing the importance of this, he

had only repeated what many experts who had examined the problem had insisted on for many years. Bombay had made special efforts in this matter and had been successful; Calcutta could do the same. In Freetown in Sierra Leone the introduction of a piped water supply had eradicated malaria almost from the town. The parts of Calcutta without a piped water supply would of course always require larvicide control.



OCTOBER, 1934.

A meeting of the Medical Section of the Asiatic Society of Bengal was held on Wednesday, the 3rd, at 6 P.M.

PRESENT :

LT.-COL. R. KNOWLES, B.A., M.R.C.S., L.R.C.P., I.M.S., F.A.S.B., Vice-President, in the Chair.

Members :

Chopra, Lt.-Col. R. N.

Hora, Dr. S. L.

(There were 22 visitors present.)

The minutes of the last meeting were read and confirmed.

The following papers were read :—

1. LT.-COL. R. N. CHOPRA, C.I.E., M.A., M.B., I.M.S., F.A.S.B.—*Blood Changes in Opium Addicts.*

2. LT.-COL. R. KNOWLES, B.A., M.R.C.S., L.R.C.P., I.M.S., F.A.S.B.—*Spirochaete in Guinea-pig.*

1. *Blood Changes in the Opium Addicts.*

Colonel Chopra said :—

The hydrogen ion concentration is lowered as compared with those of normal individuals. This corroborates an increase in the carbon dioxide tension and a consequent loss of sensitiveness on the part of the respiratory centre of the addicts. Buffer action is considerably diminished, probably due to a lower alkaline reserve observed in such cases and also due to the fact that this lower alkaline reserve is further rendered inefficient as a buffer due to the increased carbon dioxide tension. The increase in the surface tension points to a relative increase in the fluid content of the sera and a diminution in the protein contents. The decrease in the relative viscosity also corroborates the above conclusions. The viscosity of the whole blood is found to increase in some of the cases most probably due to the swelling of the red blood cells on account of the increased carbon dioxide tension.

The total and the individual proteins are also changed in the following way : The total proteins are diminished. The albumin fraction is not diminished in any case; on the contrary, it is found to increase appreciably in many of the cases. This increase in the albumin fraction is probably responsible for the increase in the fluid content of these sera as observed by various workers. Part of this fluid is drawn in and reserved in the red cells due to an increase in the osmotic pressure inside such cells. The hydræmia observed on withdrawal may be probably due to the return of this fluid to the blood

and to the tissue cells, later on. The pseudoglobulin fraction is considerably diminished. The euglobulin fraction is found to increase. From Chick's observations that euglobulin is an adsorption compound of pseudoglobulin with lecithin, the drainage of lecithin from the nerve cells seems to be probable, and an explanation for the degeneration of the nervous tissues from this point of view is indicated. A mode of treatment has also been suggested herein for both addiction and withdrawal.

2. *Spirochæte in Guinea-pig.*

Colonel Knowles said :—

1. A blood-inhabiting spirochæte of the guinea-pig, belonging to the relapsing fever group, is described. The infection is easily transmissible from one guinea-pig to another by blood inoculation. White rats and rabbits are also susceptible.

2. The course of the disease resembles that of avian spirochetosis in the fowl, but is much less severe, the mortality being about 31 per cent. After an incubation period of 2 to 6 days spirochætes appear in the blood, multiply rapidly, are present for 7 to 28 days, and then disappear. The animal may die at the height of the infection, or a few days after the spirochætes have disappeared, or may recover.

3. The disease is definitely febrile in the guinea-pig.

4. The infection does not appear to be hereditarily transmitted, nor is there any transmitted immunity. In animals which have recovered from infection there is a solid immunity.

5. Relapses occurred in 9 out of 69 animals.

6. During the height of the infection the internal viscera swarm with spirochætes, but after the disappearance of spirochætes from the peripheral blood no spirochætes can be detected in emulsions of the internal viscera and these emulsions are not infective to clean animals.

7. The spirochæte is one typical morphologically of the relapsing fever group; with a length of from 13.5 to 23 microns, thin and delicate and with finely tapering end. By special staining a very delicate single terminal flagellum can be demonstrated at each end. The spirochæte can be readily cultivated in Galloway's medium.

8. In fed *Argas persicus* the guinea-pig spirochæte develops in a manner exactly similar to that of *Spirochæta anserina*. The vast majority of the ingested spirochætes disintegrate and die. A few however survive and divide very rapidly. Very thin and delicate *tenue* forms are produced and these pass into the hæmocoel from the 3rd to the 5th day. From this they invade all the viscera of the tick. There is heavy and progressive invasion of the salivary glands, whereas the infection in the gut slowly dies out. Emulsions of the infected salivary glands of the tick are infective on inoculation into clean guinea-pigs, but we have been unable to cause infection by the bite of infected ticks. Presumably in Nature the transmitting vector is some species of tick which gains access to guinea-pigs.

9. Previous records of blood-inhabiting spirochætes of rodents are discussed.

10. It is suggested that the name *Spirochæta cobayæ* nov. sp. be given to this organism.

Colonel Chopra—

I have heard with great interest Col. Knowles' paper. I would like to ask if Col. Knowles found large number of spirochætes in the central nervous system of these guinea-pigs. In relapsing fever in man it is said that the spirochætes are found in the brain after they have disappeared from the peripheral blood after arsenical injections. Secondly, I would like to inquire if Col. Knowles has tried the effect of arsenicals on the guinea-pig spirochæte. In case of spirochæta of syphilis it has been

shown that the organism assumes a ghost-like form under arsenical treatment but may not be killed. Such forms become active again and that is why arsenicals do not eradicate the disease when given by themselves. Does any such change take place in the case of the guinea-pig spirochæte?

Colonel Knowles—

In reply said that spirochætes do occur in large numbers in the central nervous system of guinea-pigs. The effect of arsenicals on this organism has not been tested.

INDEX

YEAR-BOOK ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME I, 1935

A

- Accommodation, 44.
 Agencies, 50.
 Annandale Memorial Medal, 43.
 — — recipients of, 138.
 Anniversary Celebrations, 53.
 Annual Address, 1934-35, 9.
 „ Meeting, 1935, proceedings of, 5.
 „ Report, 1934, 36.
 Anthropology, 51.
 Arabic and Persian Manuscripts, Search and Catalogue, 52.
 Artifact found in the jungle in the Ho country, 160.
 Artistic and Historical Possessions, 44.
 Ashraf, K. M. Life and conditions of the people of Hindustan, 157.
 Asphyxiation of some air-breathing fishes of Bengal, 159.
 Associate Members, 36.
 — — list of, 132.
 Auden, J. B. North Bihar earthquake, 1934, 168.

B

- Bahjor meteorite iron, 165.
 Baptist Mission Press, 49.
 Barbak Shah, a copper coin of, 179.
 Barclay Memorial Medal, 43.
 — — recipients of, 137.
 Basu, N. K. See Chattopadhyay, K. P., and N. K. Basu.
 Bhattacharya, B. Obituary of MM. Pandit K. K. Smriti-tirtha, 186.
 Bibliotheca Indica, 52.
 Blood changes in opium addicts, 197.
 Bogdanov, L. Quatrains of Jalālud-dīn Rūmī, 174.
 Bora fish, precipitating action of slime water obtained from, 151.
 Bose, P. N., an announcement to perpetuate the memory of, 8.

- Brahnachari, Sir U. N., Sir William Jones Memorial Medal awarded to, 7.
 Bronzes from West Africa, 167.
 Burkill, I. H., Brühl Memorial Medal awarded to, 7.

C

- Calcutta Indian Science Congress Prize, 44.
 Catalogue of Sanskrit Manuscripts, 52.
 Chatterji, S. K. Bronzes from West Africa, 167.
 Chattopadhyay, K. P., and N. K. Basu. Māṇḍā festival of Chota Nagpur, 155.
 Chhabra, B. Ch. Epigraphical study of expansion of Indo-Aryan culture during Pallava rule, 175.
 China plates representing the three famous Buddhist pilgrims, 167, 171.
 Chopra, R. N. Blood changes in opium addicts, 197.
 Cladode-formation in certain plants, 146.
 Committees of Council, 39.
 Communications, 50.
 Condolences, 38.
 Conger, G. P. Cosmic persons and human universes in Indian philosophy, 150.
 Congratulations, 42.
 Cosmic persons and human universes in Indian philosophy, 150.
 Council, 38.
 „ Proceedings, 1934, abstract of, 83.
 Cult of Orissa, 151.

D

- Das Gupta, C. C. Viśvanātha temple at Maribag, 155.
 Datta, J. M. Sedentary game in Bengal, 163.

Deccan trap basalts and dolerites from the Chhindwara Dist., 164.

Deputations, 42.

Dhalbhum, Western, ancient workers of, 155.

Diatoms in the Punjab, 150.

Dikshit, K. N. Four coins, 179.

Dunn, J. A. Late tertiary uplift in Singhbhum, 150.

E

Electroscope for ascertaining the radio-activity of spring waters, natural gases and minerals, 180.

Elliott Gold Medal and Cash, recipients of, 137.

„ Prize for Scientific Research, 43.

Exchange of Publications, 50.

Exhibits, 24.

„ list of, 50.

F

Fermor, L. L. Annual Address, 1934-35, 9.

—Specimens of Deccan trap basalts and dolerites from the Chhindwara Dist., 164.

Finance, 45.

—Committee, 39.

Fish slime and precipitation of suspended mud in water, 145, 151.

Fishes, form and locomotion of, 178.

Flowering plants of the Hyderabad State, 156.

Fossiliferous limestone of eocene age associated with volcanic rocks, 172.

Fox, C. S. Electroscope for ascertaining the radio-activity of spring waters, natural gases and minerals, 180.

G

General Lectures, 51.

Ghose, Sir C. C., obituary of, 190.

Ghosh, E. N. Asphyxiation of some air-breathing fishes of Bengal, 159.

—obituary of, 191.

Ghuznavi, I. S. K. Ringed bird captured in Bengal, 149.

H

Harappa animal remains, 145.

Hartert, E., obituary of, 185.

Hindu conception of correlation between form and locomotion of fishes, 178.

Honorary Fellows, 38.

—list of, 134.

Honours, 42.

Hora, S. L. Fish slime and precipitation of suspended mud in water, 145.

—Hindu conception of correlation between form and locomotion of fishes, 178.

—Sun-shades for fishes, 166.

—Trade in live fish in Calcutta, 168.

Husain, S. W. Kitāb al-Askhiyā' of al-Dāraqutnī, 156.

I

Indian Museum, 41.

Indian Science Congress, 41.

Indo-Aryan culture during Pallava culture, 175.

Institutional Members, 37.

—list of, 133.

J

Joy Gobind Law Memorial Medal, 43.

—recipients of, 138.

Jubilee Celebration Account, 82.

K

Kamala Lectureship, 41.

Khanpur meteorite, 166.

Kitāb al-Askhiyā' of al-Dāraqutnī, 156.

Knowles, R. Mosquito density and mosquito-borne diseases in Calcutta City, 193.

—Nuclear division in malaria sporozoites, 193.

—Spirochaete in guinea-pig, 198.

Krishnan, M. S. Bahjoi meteorite iron, 165.

—Khanpur meteorite, 166.

L

Library, 44.

Life Members, chronological list of, 131.

Limonite from China, 152.

Live fish trade in Calcutta, 168.

M

- Mahmud of Ghazni, a silver coin of, 179.
- Majeed, M. A. Occurrence and distribution of Diatoms in the Punjab, 150.
- Malaria sporozoites, nuclear division in, 193.
- Malpaharias, social institutions of, 159.
- Māṇḍā festival of Chota Nagpur, 155.
- Manen, J. v. Artifact found in the jungle in the Ho country, 160.
- China plates representing the three famous Buddhist pilgrims, 167, 171.
- Obituary of Sir C. C. Ghose, 190.
- Obituary of Sir P. C. Mitter, 188.
- Specimens of limonite from China, 152.
- Mani, M. S. An interesting case of Cladode-formation in certain plants, 146.
- 'Wireless' acrials of gall-midges, 146.
- Matter, fundamental constituents of, 168.
- Mauryan lāts or dhvaja stambhas, 155.
- Medical Section, 52.
- Meetings, 1934, proceedings of, 193.
- Meetings, 50.
- Members, loss of, 1934, 136.
- Membership Statistics, 1905-1934, 55.
- Miranov, N. Saddharinapūṇḍarika, 159.
- Mitra, A. K. Mauryan lāts or dhvaja stambhas, 155.
- Mitra, S. C. Cult of the agricultural deities, Sama and Chako, in N. Bihar, 151.
- Curious cult of Orissa, 151.
- Plant-lore from Bihar, 150.
- Worship of the plough in N. Bihar, 151.
- Mittor, Sir P. C., obituary of, 188.
- Mosquito density and mosquito-borne diseases in Calcutta City, 193.
- Mukherjee, J. N. Fish slime and precipitation of suspended mud in water, 151.
- Method for rapidly determining the pH of turbid solutions, 183.

Murray, E. F. O. Ancient workers of Western Dhalbhum, 155.

N

- National Institute of Sciences of India, 54.
- Natural History : Biology, 51.
- Physical Science, 51.
- North Bihar earthquake, 1934, 168.
- Numismatics, 53.

O

- Obituary, 38.
- Notices, 185.
- Office, 40.
- Bearers, 39.
- Officers and Members of Council, 1934, 105.
- 1935, 23, 106.
- Ordinary Fellows, 37.
- list of, 133.
- Ordinary Members, 36.
- chronological list of, 126.
- list of, 107.
- Ordinary Monthly Meetings, 1931, proceedings of, 139.

P

- Patrons, list of, 104.
- Paul Johannes Bruhl Memorial Medal, 43.
- recipients of, 138.
- People of Hindustan, life and conditions of, 157.
- Philology, 51.
- Plant-lore from Bihar, 150.
- Plough worship in N. Bihar, 151.
- Prashad, B. Harappa animal remains, 145.
- Obituary of Dr. E. Hartert, 185.
- Obituary of E. N. Ghosh, 191.
- Presentations, Donations, and Legacies, 44.
- Publications, 49.
- list of, 1934, 56.

Q

- Quatrains of Jalālu-d-dīn Rūmī, 174.

R

- Receipts and Disbursements, 57.
- Ringed bird captured in Bengal, 149.

Royal Charter, 54, 152, 160.
 Roy-Chaudhury, D. P., Elliott Prize for Scientific Research awarded to, 7.
 Roy-Chowdhury, S. P. Precipitating action of slime water obtained from Bora fish, 151.
 Rules and Regulations, 41.

S

Saddharmapundarika, 159.
 Saha, M. Fundamental constituents of matter, 168.
 ———Indian Science Congress, Calcutta Prize, awarded to, 7.
 Sahni, M. R. Shan Hinterland, 169.
 Sana and Chako, agricultural deities, in N. Bihar, 151.
 Sarkar, S. Social institutions of the Malpaharias, 159.
 Sayeedud-Din, M. Common flowering plants of the Hyderabad State, 156.
 Sen, N. K., Elliott Prize for Scientific Research awarded to, 7.
 Sex determination in man, temperature as a factor in, 148.
 Shan Hinterland, 169.
 Sir William Jones Memorial Medal, 43.
 ———recipients of, 138.
 Smrititirtha, K. K., obituary of, 186.
 Social Functions, 42.
 Society's Premises and Property, 44.

Special Anniversary Honorary Members, 37, 132.
 Spirochæte in guinea-pig, 198.
 Subramaniam, M. K. Temperature as a factor in sex determination in man, 148.
 Sun-shades for fishes, 166.

T

Temperature as a factor in sex determination in man, 148.
 Tertiary uplift in Singhbhum, 150.
 Turbid solutions, method for rapidly determining the pH of, 183.

V

Vakatakas of the C.P. and Berar, 148.
 Vira Simha, a gold coin of, 179.
 Visits, 42.
 Visvanātha temple at Maribag, 155.

W

Wadia, D. N. Fossiliferous limestone of eocene age associated with volcanic rocks, 172.
 Wellsted, T. A. Vakatakas of the C.P. and Berar, 148.
 'Wireless' asexuals of gall-midges, 146.

Date of Publication January, 1936.

Pp. 1-200.

(Complete.)

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME II

1936

NOTICE

His Majesty, the King Emperor, has been graciously pleased to grant permission to the Asiatic Society of Bengal to use the title 'Royal' before its name.

The Society, therefore, will henceforth be known as the 'Royal Asiatic Society of Bengal', and the *Journal* and *Year-Book* will be called *Journal of the Royal Asiatic Society of Bengal* and *Year-Book of the Royal Asiatic Society of Bengal*, and the abbreviations for references will be : JRASBL.; JRASBSc.; and YBRASB.

CALCUTTA,
1, PARK STREET,
August, 1938.

JOHAN VAN MANEN,
General Secretary,
Royal Asiatic Society of Bengal.

Year-Book, Royal Asiatic Society of Bengal, 1935.

CONTENTS.

	<i>Page</i>
1. Proceedings, Annual Meeting, 1936	5
Annual Address, 1935-36	9
Officers and Members of Council, 1936	33
Exhibition, Annual Meeting	34
Annual Report, 1935	44
Membership Statistics, 1906-1935	62
List of Publications, 1935	63
Abstract Statement of Receipts and Disbursements, 1935	65
Abstract Proceedings Council, 1935	89
2. List of Patrons, Officers, Council Members, etc., 1935	107
Patrons	108
Officers and Members of Council, 1935	109
Officers and Members of Council, 1936	110
Ordinary Members, alphabetically	111
Ordinary Members, chronologically	129
Life Members, chronologically	134
Special Honorary Centenary Members	135
Associate Members	135
Institutional Members	136
Ordinary Fellows	136
Honorary Fellows	137
Changes in Membership	139
Loss of Members, 1935	139
Elliott Gold Medal, recipients	141
Barclay Memorial Medal, recipients	141
Sir William Jones Memorial Medal, recipients	142
Annandale Memorial Medal, recipients	142
Joy Gobind Law Memorial Medal, recipients	142
Paul Johannes Brühl Memorial Medal, recipients	142
Indian Science Congress Medal, Calcutta, recipient	142
3. Proceedings, Ordinary Monthly Meetings, 1935	143
Obituary Notices	217
4. Proceedings, Medical Section Meetings, 1935	225

PROCEEDINGS OF THE ANNUAL MEETING, 1936.

FEBRUARY.

The Annual Meeting of the Asiatic Society of Bengal was held on Monday, the 3rd February, 1936, at 5-30 P.M.

PRESENT.

SIR LEWIS FERMOR, KT., O.B.E., A.R.S.M., D.Sc., F.G.S.,
M.INST.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Barwell, Lt.-Col. N.
Bent, Mr. W. A.
Bhose, Mr. J. C.
Biswas, Mr. Kalipada
Bogdanov, Mr. L.
Bose, Mr. M. M.
Brahmachary, Rai Bahadur S. C.
Brown, Mr. Percy
Calder, Mr. C. C.
Chakladar, Mr. H. C.
Chakravarti, Mr. C.
Chanda, Rai Bahadur R.
Chatterjee, Mr. P. P.
Chatterji, Dr. S. K.
Chopra, Brevet-Col. R. N.
Darbari, Mr. M. D.
Datta, Mr. H. N.
De, Mr. K. C.
Dey, Mr. Mukul
Dunn, Dr. J. A.
Ezra, Sir David
Gee, Mr. E. R.
Ghose, Mr. T. P.
Ghosal, Mr. U. N.
Gladstone, Mr. J.
Heron, Dr. A. M.
Hobbs, Mr. H.
Hora, Dr. S. L.

Hosain, Dr. M. H.
Jack, Hon'ble Mr. Justice R. E.
Klebe-Brandt, Dr. A.
Knowles, Lt.-Col. R.
Ledrus, Rev. Fr. M., S.J.
Mahindra, Mr. K. C.
Mahtab, Maharaj-Kumar U. C., of
Burdwan
Majumdar, Mr. N. G.
Manen, Mr. Johan van
Mitter, Mr. S. C.
Modi, Mr. J. R. K.
Mukherjee, Dr. J. N.
Mullick, Mr. M. L.
Olpadvala, Mr. E. S.
Pasricha, Capt. C. L.
Rahman, Mr. S. K.
Rao, Mr. U. S.
Rossetti, Mr. F. F.
Singh-Roy, Lt. S.
Sinh, Kumar Raghubir
Sinha, Kumar S. C.
Sircar, Mr. Ganapati
Sommerfeld, Mr. A.
Stapleton, Mr. H. E.
Urquhart, Dr. W. S.
Vidyabhusan, Mr. A. C.
Wadia, Mr. D. N.
Wilson, Dr. H. E. C.

and others.

Visitors :

Barwell, Mrs.
Basak, Dr. M. N.
Basu, Mr. B. K.
Bhose, Mr. S.
Bingham, Mr. George E.
Bishop, Mr. H. C. W.
Bishop, Mrs.
Biswas, Mrs. K. P.
Biswas, Mr. P. C.
Bose, Dr. G. S.
Chatterjee, Dr. M. M.
Covaloff, Miss O.

Deuster, Mr. R. H.
Dutt, Mr. D.
Dutt, Mr. S. C.
Ellis, Mr. Norman A.
Emanuelov, Mrs.
Fermor, Lady
Flury, Mr. E. C.
Francoil, Mr. J. H.
Gee, Mrs.
Ghose, Mr. D. C.
Hand, Dr. Henry
Holy, Dr. Ing. Ian

Visitors :

Innes, Mr. C. A.
 Kar, Mr. Haridas
 Khan, Mr. N. Ali
 Khanna, Mr. K. L.
 Knight, Rev. P.
 Knight, Mrs.
 Lacey, Mrs. Patrick
 Mitter, Mr. N. C.
 Ojha, Mr. Amrit Lal
 Patterson, Hon'ble Mr. Justice D. C.
 Rankin, Mrs. E. H.
 Ray, Dr. H. N.

Ray, Mrs.
 Richardson, Mr. J. H. S.
 Ross, Mr. J. B.
 Sinha, Mr. R. K.
 Sommerfeld, Mrs. A.
 Spencer, Dr. E.
 Thomas, Mr. R. A. S.
 Townend, Mrs.
 Urquhart, Mrs.
 Verstraeten, Rev. Fr. A., S.J.
 Worthington, Mr. R. H.

and others.

The President in declaring the Annual Meeting open said :—

‘ LADIES AND GENTLEMEN,

I have to my regret to announce that H.E. the Governor, our Patron, is prevented from attending our meeting on account of absence from Calcutta. He has, however, expressed his good wishes for the success of our function and it is my pleasant duty to communicate this message to you.’

The President ordered the distribution of the voting papers for the election of Officers and Members of Council for 1936, as well as the voting papers for the election of Ordinary Fellows proposed by Council, and appointed Messrs. H. Hobbs and L. Bogdanov to be scrutineers.

The Annual Report was then presented. (See page 44).

The retiring President then delivered his Annual Address. (See page 9).

The President called upon the scrutineers to report and announced the result of the Council Election. (See page 33).

The President said :—

‘ LADIES AND GENTLEMEN,

I now announce the result of the Council vote. On the report of the scrutineers I have the pleasure to declare all the candidates for the next year set forth in the ballot paper duly elected.

I would propose that in communicating his election as President to His Excellency, the Governor of Bengal, we should express our thanks to him for having given us the permission to do so.

By this election we have revived an old tradition, as the Society during its long career has had the honour of having three Viceroys and five Governors of Bengal as its Presidents. Sir John Anderson himself is a scholar of considerable distinction, and science has lost what Government has gained by the circumstances of his career.

As I have not stood for re-election to the Council on account of my impending departure from India, I will now vacate the

Chair and request Sir David Ezra, the Senior Vice-President present, to occupy it in the unavoidable absence of our new President.'

Sir David Ezra said :—

'I think that as this is probably the last time that we shall have the privilege of the presence of Sir Lewis Fermor in our midst, I express the desire of all present in proposing that he should continue to occupy the Presidential Chair for the rest of the evening.'

The Meeting agreed, and Sir Lewis resumed the Chair.

The Chairman then made the following announcements :—

'I have now great pleasure in announcing that, having heard the report of the scrutineers, I declare the following Ordinary Members :—

Dr. S. K. Chatterji,
Dr. A. M. Heron,
Mr. N. G. Majumdar, and
Nawab Habib-ur-Rahman Shirwani,

to have been duly elected Ordinary Fellows of the Asiatic Society of Bengal.'

'I have now to announce that papers from six candidates have been received in competition for the Elliott Prize for Scientific Research for the year 1935 which was for Geology and Biology, including Pathology and Physiology and the Trustees have judged the papers of one candidate deserving of the award.

The prize for the year is accordingly awarded to Mr. Kalipada Biswas of Royal Botanic Garden, Sibpore, for meritorious publications on the subject of Botany.

The prize for 1936 will be for work in Mathematics regarding which a detailed announcement has been published in the *Calcutta Gazette* and the *Bihar and Orissa Gazette*.'

The Chairman conveyed his hearty congratulations to Mr. Biswas.

The Chairman then said :—

'My next announcement regards the Barclay Memorial Medal. This medal is awarded biennially for conspicuously important contributions to Medical or Biological science with special reference to India.

This year the medal is awarded to Dr. Birbal Sahni, Professor of Botany, Lucknow University, for his long-sustained and distinguished labours in the field of Botanical research.'

'My next announcement regards the Joy Gobind Law Memorial Medal. This medal is awarded every three years for conspicuously important contribution to the knowledge of Zoology in Asia. This year the medal is awarded to Professor Lew Semenowitch Berg, Chief of the Bureau of Applied Ichthyology and Professor of Geography, State University, Leningrad, Russia.'

After these announcements the Chairman declared the Annual Meeting to be dissolved and invited the guests present to examine the collection of exhibits (see page 34) and the members present to reassemble round the table for the Ordinary Monthly Meeting for the election of Members and transaction of business.

ANNUAL ADDRESS, 1935-36.

THE DEPLETION OF INDIA'S COAL RESERVES.

CONTENTS.

	<i>Page</i>
I. INTRODUCTION	9
II. THE DEPLETION OF INDIA'S COAL RESERVES ..	11
Annual value of Indian coal production ..	12
Annual production of coal	12
Development of new coalfields	13
Over-production	13
Wasteful methods of work	14
Mr. Treharne Rees' report	14
The Coalfields Committee's report	15
Investigations of the Geological Survey of India ..	17
Note on 'India's Coal Resources'	17
Total Indian coal reserves	18
Reserves of coal of good quality	18
Life of reserves of coal of good quality ..	18
Reserves of coking coal	19
Life of coking coals of Jharia	22
Utilisation of Indian coking coals	24
Coking coals available to replace Jharia coal ..	26
Serious position in Jharia field	26
Operations of Coal Grading Board	27
Remedies	27
1. State control of methods of work	28
2. Hydraulic stowing with increased market price ..	28
3. Change in methods of grading coal	28
Ability of railways and industries to stand increased price of coal	29
III. CONCLUSION	31

I. INTRODUCTION.

We are met here this afternoon under the shadow of a great sorrow, the death of our beloved King George V. This Society is now in the 153rd year of its existence, having been founded in the reign of King George III and whilst Warren Hastings was Governor-General of India. We have seen the passage of six monarchs in Britain and of 32 Governors-General in India, and have thus become a part of the history of British India. In spite of wars and other vicissitudes of history, this Society has been enabled to carry on unhampered its fruitful labours of scholarship and research. Not only, therefore, as loyal subjects

do we grieve at the passing of His Majesty King George V, but as grateful beneficiaries of the system of Government that he personified. We also extend our deepest sympathies to Queen Mary, and to the new King-Emperor, Edward VIII, in their personal loss. In extending this sympathy we also welcome our new King, and pray that during his reign the conditions may continue that render possible the peaceful researches of men of letters and of science, and the fruitful production of works of art by those who are suitably gifted.

Two days before the death of King George occurred that of Rudyard Kipling. With the almost simultaneous passing of these two notable personalities it will seem to many that an era in British history has come to an end.

It is the practice for the President of your Society to deliver an Address at the annual meeting held customarily on the first Monday in February. This privilege falls to my lot once more.

The General Secretary has already given you a résumé of the report of the Council of the Asiatic Society of Bengal upon the progress of the Society during the calendar year 1935. There are no special points in this account that require further elaboration by me, but it is necessary to refer to the death of three of our Fellows—two during the year 1935, and one at the beginning of this year.

The senior of these was Dr. P. J. Brühl, who has been a member of this Society since 1909 and a Fellow since 1912. After a distinguished career in Calcutta, first at the Engineering College, Sibpur, and later at the University of Calcutta, Dr. Brühl retired to Bangalore, where he resided until his death. Brühl was known not only for his original researches in Botany, but was a competent exponent of several other branches of science including Geology and Physics. One of the medals of the Society, the Paul Johannes Brühl Memorial Medal, has been named after him.

Whilst Brühl left us in the fulness of years, Lt.-Col. H. W. Acton, a member of the Society since 1921 and a Fellow since 1930, has died long before the allotted span of life, thereby depriving the School of Tropical Medicine, Calcutta, of a chief whose versatility in medical research has long been a source of inspiration to the school.

Since the year ended, we have lost a third Fellow, namely Dr. A. C. Woolner, Vice-Chancellor of the University of the Punjab and known throughout India for his oriental scholarship. Woolner had been a member of the Society since 1906 and a Fellow since 1927.

I will now refer to a matter that will be a source of pleasure and gratification to you all, namely that my successor in this Chair is to be His Excellency Sir John Anderson, Governor of Bengal, who has hitherto been on our rolls as a Patron, but has recently been elected an Ordinary Member of the Society.

It may interest you to learn that on several occasions in the past we have been honoured by either the Viceroy or the head of the Province of Bengal accepting the office of the President of this Society. The following is a list :—

Sir John Shore (later Lord Teignmouth), Governor-General of India ..	1794 to 1797
The Earl of Moira (later Marquess of Hastings), Governor-General of India..	1815 to 1820
Sir Henry Hardinge (later Lord Hardinge), Governor-General of India ..	1844 to 1847
Sir Ashley Eden, Lieutenant-Governor of Bengal	1881 to 1883
Sir Charles Elliott, Lieutenant-Governor of Bengal	1893 to 1894
Sir John Woodburn, Lieutenant-Governor of Bengal	1900 to 1902
Sir Andrew Fraser	1905 to 1907
Lord Carmichael, Governor of Bengal ..	1913 to 1915

We shall all be glad to welcome the addition of Sir John Anderson's name to this illustrious list ; it will be especially fitting that Sir John, as His Majesty's representative in Bengal, should be President when the Society receives the honour of being permitted to prefix the title ' Royal '.

II. THE DEPLETION OF INDIA'S COAL RESERVES.

A perusal of the records of our Society will show that the Address of the President at the annual meeting is normally devoted to a subject of academic interest, either in arts, letters or science : and last year I addressed you upon the development of scientific research in India to the end of the nineteenth century, thereby conforming to the normal. This trend arises not from any rule of the Society, but from its usual interests. According, however, to the paraphrase of the well-known passage in the original Address of our Founder, Sir William Jones, describing the objects of our Society :

' The bounds of its investigations will be the geographical limits of Asia, and within these limits its enquiries will be extended to whatever is performed by man, or produced by nature.'

This year I propose to address you upon one of the products of nature, namely coal, in one of its economic aspects, namely the available resources of coal in India, and the fact that the quantity of this substance ' produced by nature ' that will become available for use by man depends upon the manner in which mining operations are ' performed by man '.

When I arrived in India in the fall of 1902, the mineral industries of India were still in their comparative infancy, as is shown by the fact that the average annual value of the total Indian production of all minerals was only £4,253,706, the value for 1903 being £4,988,527. From then onwards successive quinquennial periods showed a rapidly increasing total value until the period 1919-1923, as is shown by the following figures :—

Period.	Average annual value of total mineral production of India.	Average annual value of coal production of India.	Ratio of value of coal production to total value.
	£	£	Per cent.
1898-1903 ..	4,253,706	1,225,677	28·8
1904-1908 ..	6,716,325	2,139,249	31·8
1909-1913 ..	8,393,222	2,969,305	35·4
1914-1918 ..	11,822,743	4,419,174	37·4
1919-1923 ..	24,615,727	9,252,649	37·6
1924-1928 ..	23,875,578	8,305,764	34·8
1929-1933 ..	17,368,567	5,875,009	33·8
1934	17,700,015	4,741,425	26·8

The year of maximum production was 1924 with a total value of £27,683,898.

During the same 36 years (1898-1933) the average annual value of the coal produced rose from £1,225,677 in the period 1898-1903 to £9,252,649 in the period 1919-1923, falling to £5,875,009 in the period just ended. The year of maximum value of production of coal was also 1924, with a value of £10,766,433. The ratio of the value of the coal production to that of all minerals including coal has ranged between 28·8 per cent. and 37·6 per cent. with an average value of 35·2 per cent. for the 7 periods (36 years) or 33·9 per cent. if 1934 be included. These figures illustrate vividly the value of the coal industry to India.

The variation in the annual value of the coal production of India is due, of course, partly to variations in the quantity of mineral won and partly to variations in market price per ton. This can be seen by comparing the figures of average annual value given above with the following figures of average annual production and average pit's mouth value per ton for the same periods :—

Annual production
of coal.

Period.				Average annual production.	Average pit's mouth value per ton.
				Tons.	Rupees.
1898-1903	..	..	..	6,219,790	2-95
1904-1908	..	..	..	10,066,934	3-19
1909-1913	..	..	..	13,509,472	3-30
1914-1918	..	..	..	17,951,583	3-69
1919-1923	..	..	..	19,712,213	6-25
1924-1928	..	..	..	21,540,607	5-21
1929-1933	..	..	..	21,776,153	3-61
1934	..	..	..	22,057,447	2-86
Years of maximum production —					
1919	..	..	..	22,628,037	4-50
1930	..	..	..	23,418,734	3-875
Year of maximum price—					
1922	..	..	..	19,010,986	7-69

From a study of these figures it is seen that the increase in the total annual value from 1898 to 1918 is due mainly to large increases in the quantity of coal produced aided by a slowly rising value per ton. During the next period 1919 to 1923, there was a proportionately smaller increase in the average annual production but an enormous increase in value of the annual coal production due mainly to a very great increase in price, which reached its maximum in 1922 at Rs. 7-69 per ton. The high prices during this period were at least in part due to wagon shortage. Since then the value of the total coal production has fallen steadily due to falling prices per ton on a roughly steady output, averaging $21\frac{1}{2}$ to 22 million tons from 1924 to 1934.

Now this great increase in the average annual output of coal from 6-2 million tons in the period 1898-1903 to 21-5 million tons in the period 1924-1928, or from 4-6 million tons in 1898 to 22-6 million tons in 1919, has meant great activity in the development of already opened coalfields, particularly of the Jharia and Raniganj fields, and of the building of railways to new fields that were not producers at the beginning of the period under discussion. The new fields developed have been Pench Valley (1903), Ballarpur (1904), Bokaro (1909), Rampur (1910), Jainti (1915), Sasti (1920), Sohagpur (1921), Talcher (1923), Karanpura (1925), Korea (1930), Tandur (1931).

In retrospect it is evident that the rapid expansion in the demand for Indian coal that prevailed up to 1919 when the output reached 22-6 million tons was not to continue, for the production of 1934

was only 22.1 million tons. And as the coalfields of India opened in 1919 were able to cope with the existing requirements as well as to develop for the future, the coalfields that have been developed since this date, six in number, have caused a position of potential over-production. As these six coalfields between them were responsible for the production of over $1\frac{1}{2}$ (1.54) million tons in 1934, whilst the five fields opened between 1903 and 1915 have increased their production by over $1\frac{1}{2}$ (1.58) million tons between 1919 and 1934, we have a statistical reason for the depression in the coalfields of Bengal and Bihar and Orissa of recent years. Irrespective of source, the total output of coal in India for the 36 years, 1898 to 1933, has been 553,883,760 million tons or 575,941,207 tons to the end of 1934, or probably nearly 600,000,000 tons to the end of 1935.

What is of great concern to us is the effect of these factors upon the available reserves of coal in India. This problem has been a matter of concern both to the Government of India and to the public in India for some years and has been in particular a matter of study by the Geological Survey of India; for it is common knowledge that the methods of work in many of the coal mines in India have for many years been such as do not commend themselves to geologists and competent mining engineers. And the tales of fire, flood and subsidence from the Jharia coalfield in particular and the evidence visible to all in the shape of pillars of cloud by day and of fire by night show that the extraction of some 600 million tons of coal between 1898 and the end of 1935 must have meant the depletion of available reserves to a vastly larger extent.

The Government of India became aware of the situation in the coalfields of Bengal and Bihar and Orissa as long ago as 1917 and engaged a competent Mining Engineer from England, Mr. R. I. Treharne Rees, to report on the position, which he did in 1919.¹ Mr. Rees directed his attention to four problems:—

- (1) Methods of extraction,
- (2) The generation of power at the collieries,
- (3) Coking,
- (4) Handling and despatch of coal at the collieries,

and found that considerable economy could be effected under each head. As improvements under (2), (3) and (4) would apply only to the coal extracted from the ground, it was evident that the principal necessity was to improve the methods of extraction and decrease the very serious losses that Mr. Rees reported as

¹ 'Report on the Methods of Coal Mining in India', pp. 1-12 with Appendix on Hydraulic Stowing, pp. 1-5, Calcutta, (1919).

existing. To effect this Mr. Rees advocated the extensive introduction of hydraulic stowing in the Jharia and Raniganj coalfields, and wrote a special appendix to his report on this method, in which he estimated that in the case of new workings where the coal was not already cut into pillars the cost of sand stowing would be from 10 to 14 annas per ton of coal whilst in the case of extracting pillars already formed, it would be 16 to 20 annas per ton.

For those not versed in mining practice I should explain that the majority of the Indian coal mines are worked on the bord and pillar system, in accordance with which a seam is opened up by driving galleries in two sets at right angles isolating rectangular pillars left to support the roof. These pillars may contain 50 to 60 per cent. of the coal in the seam, and the coal they contain cannot be extracted without the roof falling in, unless the galleries are packed with rock or sand. The filling of the voids with sand or rock either by hand or by flushing in with water is known as stowing, usually hydraulic stowing.

As a result of Mr. Treharne Rees' report the Government of India appointed a strong Committee known as the Coalfields Committee containing amongst its members the Chief Inspector of Mines, the Director, Geological Survey of India, the Mining Engineer to the Railway Board, nominees of the Indian Mining Association and the Indian Mining Federation, a representative of the Zamindars and of an Agency firm in Calcutta, the Committee being under the Chairmanship of the Commissioner of Chota Nagpur Division, with a Civilian Secretary (Mr. L. B. Burrows). In appointing this Committee the Government of India referred to Mr. Treharne Rees' report in the following terms :—

'The principal recommendations of Mr. Treharne Rees relate to the appointment of an inspecting and controlling authority for the supervision of the terms of leases, more efficient methods of coal extraction, including rotation of working and hydraulic stowage, the improvement of the conditions of colliery labour, the more economic use of power and more general employment of electricity, the improvement of methods of cokemaking, the introduction of coal mixing, the handling and despatch of coal, more extended employment of screening, and the possibilities of the manufacture of briquettes.'

The Coal Committee reported in 1920¹ and in their report recommended State control of the industry. The Coal Committee, visualising the possibility that the increase in India's annual output of coal from 5 million tons to 20 millions in 20 years would continue at the same rate, so that the output would be over 50 million tons by 1935, wrote (p. 19) :—

¹ Report of the Coalfields Committee, pp. 1 to 199, Calcutta, (1919).

‘ Unless her resources are strictly conserved and the use of coal of lower grade substituted, wherever possible, for that of the better coking qualities, India may be faced at no very distant date with the loss of her metallurgical industries for want of coke.’

Actually, as already noticed, the expected expansion of output has not taken place; none the less the passage quoted is true, and the danger has been much magnified by the passage of years.

The principal conclusions of the Coal Committee were (p. 30) :—

‘ (1) That no improvement in the present wasteful methods can be expected without State interference, that such interference should take the form of a controlling authority with legal powers designed to ensure conservation and economic extraction, and that such authority should consist of a new Government department and a board sitting in Calcutta.

(2) That a steady and sufficient supply of wagons, with the requisite facilities for moving them, is the most urgent need of the industry.

(3) That sand-stowing should be made compulsory within certain limits and with provision for compensation, and that funds for the purpose should be raised by a cess and a duty of eight annas a ton on all coke and coal; that the cess should be imposed as soon as possible, be collected by the railway companies on despatches, and be administered by the controlling authority.’

From both Mr. Treharne Rees’ report and that of the Coal Committee it appeared that the minimum amount of coal being left in the ground was 33 per cent., although to some it appeared that this figure was conservative and that the waste underground was greater. The question of wagon supply has long been rectified, but no action has been taken on recommendations (1) and (3) of the Coal Committee’s principal conclusions.

The Government of India did, however, issue in 1921 a letter to Local Governments, Mining Associations, Chambers of Commerce, and other interested bodies, in which the Government of India gave their provisional conclusions regarding the recommendations of the Coal Committee.

In their replies to this letter one or other of the various bodies consulted objected to almost every conclusion of the Government of India, and as a result the Government took no action on the report of the Coal Committee. I am betraying no secret when I mention that the principal reasons why the Government of India did not take action on the Coal Committee’s report were the facts that we did not know definitely the extent of the coal reserves of India of higher grade and therefore the seriousness of the admitted losses in working *vis-a-vis* the available reserves, nor did we know the extent to which it would be possible by methods of washing to improve the lower grade coals. These problems and the question of the reserves of sand available for stowing were therefore entrusted to the Geological Survey of India for examination. It was soon shown that no help was to be expected from processes of beneficiating

lower grade coals,¹ and that the supplies of sand available for sand-stowing were adequate.² Further, Sir Edwin Pascoe decided

Investigations of the Geological Survey of India.

to institute a resurvey of the Jharia and Raniganj coalfields and a re-examination of all the other fields, and in 1925 formed a special Coalfields Party of the Geological Survey of India under the superintendence of Dr. C. S. Fox. This was necessarily a long task, and has already led to the publication of 5 memoirs, one from the pen of Mr. E. R. Gee, and the remainder by Dr. Fox, with one memoir still to come. With the completion of Dr. Fox's memoir on 'The Lower Gondwana Coalfields of India',³ the views of the Geological Survey of India on the available reserves of coal of all qualities in India were placed before the public. Dr. Fox's estimates were, of course, available to Government before this, and after the Government of India had rejected the coal restriction scheme proposed by the mining community in 1934, I was asked, as the then Director, Geological Survey of India, to prepare for publication a note on Indian coal reserves, in order to educate public opinion in India on the seriousness of the situation prior to the introduction by Government of measures of conservation, which, it is no secret, the Government of India have in preparation.

My note has been published as No. 54, *Bulletin of Industries and Labour*, issued in July 1935; and also, in order to ensure wider publicity, in the *Records of the Geological Survey of India*.⁴

Note on 'India's Coal Resources'.

The data assembled in this note were collected in 1933, and represent the position as it stood at the end of 1932.

The object of the publication of this note was to draw public attention to the alarming position that is rapidly being created in India owing to the methods of work in Indian coalfields, especially in Jharia. It was shown in this note, for instance, that if active measures were not undertaken to improve the methods of work in the Jharia field, this field would be exhausted in 33 years (from 1932) as a maximum, instead of lasting 80 years as was otherwise possible. My note has so far failed in its purpose in that two of the leading journals of Calcutta, the *Statesman* and *Capital*, each missed the main point. They both referred to my estimate that the 4,500 million tons of coal of good

¹ W. Randall, 'Froth Flotation of Indian Coals', *Rec. Geol. Surv. Ind.*, LVI, pp. 220-229, (1926).

² G. V. Hobson, 'Sand Supply in the Upper Damodar River', *Trans. Min. Geol. Inst. Ind.*, XXI, pp. 321-337, (1927). See also C. S. Fox, 'The Jharia Coalfield', *Mem. Geol. Surv. Ind.*, LXI, pp. 105-107, (1930); and E. R. Gee, 'The Geology and Coal Resources of the Raniganj Coalfield', *op. cit.*, LXI, pp. 298-302, (1932).

³ *Op. cit.*, LIX, (1934).

⁴ 'India's Coal Resources (Being a Note on the Reserves available in India of Good Quality Coal, Including Coking Coal)', *Rec. Geol. Surv. Ind.*, LXIX, pp. 336-352, (1935).

quality would be exhausted in 100 years if we allow for a recovery of 50 per cent. only, and an average annual production of only 22,500,000 tons ; or in 75 years, if the future average annual extraction be 30 million tons. But neither journal mentions the much more serious fact that the 1,700 million tons of coking coal so essential to the existence of the iron and steel industry will last on the average only 33 years from 1932, at the present rate of extraction, and with a recovery of 50 per cent. ; but that such coal would last 80 years if, with sand-stowing, the extraction were improved to 80 per cent. It is because of my failure in the note mentioned to impress the public with the seriousness of the situation that I have decided to utilise the present occasion again to discuss coal reserves.

It is necessary here to give only a résumé of my note. The data in it are based largely on Dr. Fox's memoir on 'The Lower Gondwana Coal-fields of India' already referred to.

According to Dr. Fox, the quantities of coal of all qualities in the Gondwana coalfields, which are responsible for 98 per cent. of India's coal output, are 60,000 million tons ; of which 25,000 million tons occur in the Damodar Valley coalfields, namely the Raniganj, Jharia, Bokaro, and Karanpura coalfields. If we restrict the totals to include only those seams over 4 feet thick and averaging 20 per cent. of ash (not exceeding 25 per cent. ash on a moisture-free basis) and lying within 1,000 feet of the surface, then, according to Dr. Fox, these estimates fall to 20,000 million tons, of which 10,000 tons lie in the Damodar Valley coalfields. Dr. Fox next forms estimates of coal of good quality, taking into account only seams of upwards of 4 feet in thickness and with ash not exceeding 16 per cent. on a moisture-free basis.

Because of the better grade of coal considered, he takes into account coal down to a depth of 2,000 feet. This leads to a total of 5,000 million tons, of which 3,150 million tons lie in the Jharia and Raniganj fields. This 5,000 million tons can be split up into—

3,500 million tons at 0 to 1,000 feet from the surface.

1,500 " " " 1,000 to 2,000 " " " "

Of this, the 3,500 million tons is included in Dr. Fox's total of 20,000 million tons.

After considering carefully Dr. Fox's estimates for the various fields and modifying his figures for the Bokaro and Karanpura fields, I find we can still reckon on a total of 4,500 million tons of coal of good quality.

I have already brought to your notice that the earlier anticipations of expansion of the Indian coal industry have not been realised, and that the industry has been practically stationary from 1919 to 1934.

If we assume no further growth in the industry and an average annual consumption of 22,500,000 tons, the 4,500 million tons referred to above would last for 200 years, if 100 per cent. extraction were secured. Judging, however, from the data given in Dr. Fox's memoir, unless something effective is done to cause an alteration in the system of working coal in India, not more than 50 per cent. and probably less of this coal will, in fact, be brought to the surface. This means that without allowing for any growth in the coal industry of India, reserves of good quality coal will be exhausted in 100 years. This is a position which the nation cannot contemplate with equanimity.¹

If, however, we assume that when the present world depression ceases India will resume her industrial progress, we must, even after allowing for the increasing competition of water power, oil fuel and petrol as sources of energy, assume a substantial growth in India's consumption of coal. On an average consumption of coal at the rate of 30 million tons annually, 4,500 million tons of coal would last 150 years with a 100 per cent. extraction, 75 years if only 50 per cent. of the coal be won.

In these last two paragraphs I show the position that would arise if all demands were met from coal of good quality only. This, of course, will not happen; but, in practice, market and technical considerations cause by far the greater portion of India's requirements to be met from her supplies of coal of good quality. If we could assume an average supply in the future of 20 per cent. of our requirements from second-class coals, and 80 per cent. from first-class coals, the saving in first-class coal would prolong the periods mentioned in the previous two paragraphs by 25 per cent. Should average higher prices for coal prevail in the future than in recent years, then the proportion of second-class coal worked would increase, with a corresponding prolongation of the periods mentioned in the two previous paragraphs.

As is well known, India is the possessor of enormous supplies of iron-ore of the very highest quality, estimated for the iron-ore fields of Bihar and Orissa alone as of the order of 3,000 million tons. (There are also vast quantities of iron-ore in other parts of India.) To smelt this ore by methods at present in vogue, the use of high-quality metallurgical coke is necessary, in the proportion, stated roughly in terms of original coal, of 1 ton of coal to 1 ton of iron-ore smelted. This means that if India is to take the position in the world as a smelter of iron and steel that appears justified by her reserves of high grade iron-ore, we should be able to see in India available for the use of this industry not less than 3,000 million tons of good quality coal suitable for

¹ This is the figure seized upon by the *Statesman* and *Capital* and regarded with comparative placency instead of the much more alarming figure of coking coal to be noticed later.

the manufacture of metallurgical coke, that is to say, a greater amount of good coking coal than the total of all the good quality coal—coking and non-coking—that will be extracted if present methods of work are continued.

It is important, therefore, to see what proportion of the 4,500 million tons of coal of good quality referred to above can be regarded as suitable for the preparation of metallurgical coke. Dr. Fox gives figures totalling to 1,500 million tons in the Giridih, Raniganj, Jharia, and Bokaro coalfields. This total, in my opinion, could be increased to 1,694 million tons or say 1,700 million tons, as at the end of 1932. The following table shows the reserves of good quality coking and non-coking coal in India at the end of 1932 :—

Reserves of good quality coking and non-coking coal in India at the end of 1932.

(In millions of tons.)

Coalfields.	Authority.	Coking coal of superior quality.		Non-coking coal of superior quality.		Total coking and non-coking coal.
		0—1,000 feet.	1,000—2,000 feet.	0—1,000 feet.	1,000—2,000 feet.	
Giridih	..	38	..	..	..	38
Raniganj	..	73	168	953	607	1,801
Jharia	..	737	163	298	52	1,250
Bokaro	..	270	245	7	..	522
	Fernor and Whitworth	..	..	..	..	..
	..	1,118	576	1,258	659	..
	..	1,694	..	1,917	..	3,611
TOTAL
Karapura* (N. and S.)	Spencer	..	..	Non-coking coal of superior quality. 530*		550
Hutar, Jhulla, Burhar	Fox	..	..			50
Kuresia, Jhilmilli, etc.			30
Talcher to Korba			200
Kanhan-Pench			30
Ballarpur-Singareni	50	50
TOTAL	910	..	910
Total coking and non-coking coal	..	1,694	..	2,827	..	4,521

* Of which 350 million tons assumed to be semi-coking and 200 million tons non-coking.

It will be seen that the total quantity of coking coal suitable for the manufacture of metallurgical coke at the end of 1932 may be taken as follows :—

At depths of 0 to 1,000 feet	1,118 million tons.
At depths of 1,000 to 2,000 feet	576 " "
TOTAL ..	1,694 million tons.

No doubt small additional quantities of good coking coal will be discovered in the future, possibly, for example, in West Bokaro ; but the probable amounts are not likely seriously to alter the problem, and in the total of 1,694 million tons given above, say, 1,700 million tons, we have almost certainly arrived at a figure which is not very far from the truth.

In addition, technical research may show that by blending with strongly coking coals, coals not at present regarded as coking coals, such as the semi-coking coals of Karanpura, may become available to the iron and steel industry. But no allowance can be made for such possibilities, which, after all, are only possibilities.

According to our present knowledge, the best coking coals of India are in the Giridih and Jharia fields. A proportion of the Giridih coal, 9 million tons according to Dr. Fox, is of extra special quality due to its very low phosphorus content. Such coal is suitable for very special metallurgical purposes, such as in the manufacture of ferro-manganese for export, for such alloy must not contain more than a definite amount of phosphorus if it is to compete in the world's markets. This coal is, in fact, the only known coal in India suitable for such manufacture. The Tata Iron and Steel Company manufactures ferro-manganese for its own purposes, but, as this alloy is not for export, the company does not find it necessary to work to the same stringent limits in phosphorus contents as would otherwise be necessary, and, therefore, does not make a claim upon the special coal from Giridih. There is, at the present time, in fact, no existing metallurgical industry in India that demands this coal, and this very special coal is instead being extracted and consumed for railway purposes for which so much other coal is suitable.

Apart from Giridih, which is only a small field, the best coking coal in India is in the Bhagaband and Jialgara stages of the Jharia field. The total amount of such coal, according to Dr. Fox's estimate, is 737 million tons down to 1,000 feet from the surface, with an additional amount of 163 million tons between 1,000 and 2,000 feet. Work at present is practically confined to the upper thousand feet. According to Dr. Fox, with the present methods of work, not more than 50 per cent. of this coal will be won, and the remainder will be lost due to

collapses, fires, and floods. The total annual extraction from Jharia during the past 10 years has been about $10\frac{1}{4}$ million tons annually. Of this, according to Dr. Fox, from 8 to 10 million tons come yearly from the Bhagaband and Jialgara stages in which all the best coking coal is concentrated. Taking an average figure of 9 million tons, we get the life of the coking coals of the Jharia field down to 1,000 feet from the surface as—

$$\frac{737}{2} \times \frac{1}{9} = 41 \text{ years}$$

if present methods of mining be not radically improved. Forty-one years is, however, in excess of the truth. According to Mr. R. R. Simpson in 1929¹—

‘It is estimated that at the present time there are not less than 120 million tons of first class coal standing in pillars which it is impossible to extract by the ordinary method of mining. Partly included in this figure, but largely in addition, there is the great quantity (some hundreds of millions of tons) of coal which cannot be worked by the ordinary methods owing to the necessity for providing underground support for rivers, roads and the network of railways which covers the coalfields.’

Allowing for the extraction since 1929, namely in 1930, 1931 and 1932, of another 27 million tons from these two stages in the Jharia field, we can estimate that at a minimum another 30 million tons of coal has been left standing in pillars, so that allowing for such pillar extraction as has taken place, and pillared coal lost in fires and collapses, and no longer included in the calculated reserves, we can safely place the present quantity of coal standing in pillars at not less than 137 million tons. Nearly 100 per cent. of this will be lost unless some form of stowing is resorted to. This means that, without stowing, our reserves are only $737 - 137 = 600$ million tons. This quantity corresponds to a life for the Jharia field, if present practice be not revised, of only—

$$\frac{600}{2} \times \frac{1}{9} = 33 \text{ years}^2$$

a period so trivial as to be equalled by the period of service of, say, a Government servant.

This figure, though not identical with, is of the same order of magnitude as other gloomy predictions of recent years.

¹ ‘The future of the Jharia Coalfield’, *Trans. Mon. Geol. Inst. Ind.*, Vol. XXIV, page 111. Mr. Barraclough’s figures at the end of 1927 was 131 million tons.

² Mr. N. Barraclough’s estimate is a life of 68 years from 1927 for the Jharia field based on certain calculations. But he goes on to show that this is an exceedingly optimistic figure unless sand-stowing be adopted, *Rec. Geol. Surv. Ind.*, LXII, p. 382. Also see Mr. Barraclough’s paper ‘Coal lost by Fires and Collapses in Indian Coal Mines’, *Rec. Geol. Surv. Ind.*, LXII, pp. 385-389, (1928).

An extraction of 100 per cent. of 737 million tons at 9 million tons a year gives an 82-year life for the coking coals of the Jharia field. A 50 per cent. extraction gives a 33-year life. These are the limits. In addition there is the coal between 1,000 and 2,000 feet, namely 163 million tons of coking coal. At 100 per cent. extraction, this adds 18 years to the life, making a total of 100 years. At 50 per cent. extraction, for the coal between 0 to 1,000 feet, the coal between 1,000 and 2,000 feet cannot be taken as adding anything to the reserves, because with a 50 per cent. extraction only of the coals above 1,000 feet, the companies and the field would be involved in such losses due to collapses, fires and floods that much of the deeper coals will be rendered either physically or economically unworkable.

Without sand-stowing and with a *continuance of only the present average rate of extraction*, we can, therefore, put the life of the Jharia field at some 33 years from the end of 1932, now already reduced to 30 years. With stowing it will be somewhere between 33 and 100 years according to the extent to which this process is adopted. If, as a result of sand-stowing, the extraction could be improved from 50 per cent. to 80 per cent., the life of the field would be 80 years, that is, more than double what it would be otherwise.

As it is important to ascertain the extent to which India's reserves of coking coal are being used for one of the principal purposes for which they have been fitted by Nature, I took the figures of production for the 11 years, 1922 to 1932, and estimated that the amount of good quality coking coal removed annually from the four fields in question was :—

	Tons.
Girdih (at 100 per cent. of output)	735,000
Ramgarh (at 30 per cent. of output)	1,870,000
Jharia (at 85 per cent. of output)	8,753,000
Bokaro (at 100 per cent. of output)	1,595,000
TOTAL	12,953,000

By correspondence with known producers, I obtained the amount of coal used for the preparation of hard coke during 1931 and 1932, and the amount of coke manufactured. The figures are :—

		1931.	1932.
		Tons.	Tons.
Total coke manufactured	..	1,309,308	1,214,526
Coal used	..	1,754,469	1,635,972
Percentage recovery	..	74.74	74.72

	1931	1932
	Tons.	Tons.
Source of coal used—		
Jharia field	1,687,681	1,585,733
Giridih field	33,209	32,724
Bokaro field	21,123	4,637
Raniganj field	12,456	12,878
TOTAL	1,754,469	1,635,972
Amount used by the three iron and steel smelting companies .	1,341,055	1,322,969
Amount used by others ..	413,414	313,003

From this statement we see that almost the whole of the hard coke of India is made from Jharia coal. The only exceptions are the use of Giridih coal in the coke ovens at Giridih by the East Indian Railway and the use by the Indian Iron and Steel Company of a small quantity of Bokaro and Raniganj coal (the Chanch seam) and a trivial quantity of Giridih coal in blends with Jharia coal.

The ratio that these figures of consumption of coking coal bear to the production of the respective fields in coking coal is shown below —

	1931.		1932	
	Total production of coking coal.	Consumed in coke making	Total production of coking coal	Consumed in coke making.
	Tons.	Tons	Tons	Tons
Giridih .	713,133	33,209	583,243	32,724
Raniganj	1,960,000	12,456	1,925,000	12,878
Jharia	8,292,000	1,687,681	7,269,000	158,573
Bokaro .	1,656,597	21,123	1,348,973	4,637
TOTAL ..	12,621,730	1,754,469	11,126,216	1,635,972

From these figures it is seen that of the total amount of coal won in India in 1931 and 1932 suitable for the manufacture of metallurgical coke, only 13·9 and 14·7 per cent respectively were used in the manufacture of hard coke. If we adopt Dr. Fox's view that without stowing only 50 per cent. of the coal will be won, then the percentage of coal used in the manufacture of hard coke falls to 6·9 and 7·3 per cent. of the coal extracted, immobilised and wasted underground.

From these figures we also see that with a 50 per cent. loss, nearly 25 million tons in 1931 and 22 million tons in 1932 of good coking coal were consumed, immobilised or wasted underground, with the supply for the manufacture of hard coke of only 1½ million tons in 1931 and 1½ million tons in 1932, the balance being put to other uses.

These figures also show the overwhelming extent to which the manufacturers of hard coke rely upon the Jharia

coalfield. Of the coal used in the manufacture of hard coke in 1931 and 1932, 96·2 per cent. and 96·8 per cent. respectively were derived from the Jharia field. This must be taken as an index of the superiority of the Jharia coal for this purpose over the other coals, except the small Giridih field. The Raniganj coal has in the main to be mixed with Jharia coal, and the Bokaro coal is higher in ash contents.

Except in so far as the existing iron and steel companies have secured and reserved to themselves adequate portions of the Jharia coalfield, the Jharia coking coals will be exhausted at the end of the period of 33 years, estimated above, unless there is improvement in mining practice; the iron and steel industry will then have to rely upon Bokaro coal and admixtures of Bokaro coal with such Raniganj coals as are still available, and perhaps with semi-coking coals from Karanpura. I have made this qualifying remark with reference to Raniganj coals, because the major portion of the coking coal of this field is in the Dishergarh seam, which is the most valuable steam coal in India and is in great demand for railway purposes and the bunkering of ships. The figures of 33 years given above are based on the premise that extraction continues at the same rate and under the same conditions as before. I understand, however, that the existing iron and steel companies have secured control of substantial sections of the Jharia coalfield. Such companies will doubtless in their own interests use improved methods of work and also extract their coal only at the rate necessary for their own operations. As a result the life of these portions of the field will be prolonged, whilst that of the remainder will be less than 33 years, unless the rate of annual production is reduced, or improved methods of work introduced.

It will be observed that I have reduced Dr. Fox's estimate of 5,000 million tons of good quality coal, both coking and non-coking, to 4,500 million tons, but have increased his estimate of 1,500 million tons of coking coal to 1,700 million tons. Dr. Fox's comment on this, made in his recent Presidential Address to the Mining and Geological Institute of India, is that I am being unduly optimistic, and that the position is very much worse.

Even if my figure of 1,700 million tons is correct, I agree with Dr. Fox that the position is actually much worse than can be deduced from these figures. The Jharia coalfield, as we all know, is now one vast honeycomb in the best seams, and even with stowing much coal that could otherwise have been recovered will be lost due to subsidence and fire. According to one report in the press, the strict accuracy of which I cannot vouch for, out of 133 working coal mines in Jharia about 42 are on fire, a statement that presumably means have portions on fire.

A further reason why the foregoing figures may prove to be unduly optimistic is, I regret to say, the unexpected effects of the operations of the Coal Grading Board. The Board was instituted for the purpose of helping the Bengal coal trade to recover lost export markets by ensuring that coal of uniformly high quality was offered for export. The scheme has been as successful as was possible, but it has had an unfortunate and unexpected repercussion due to two causes. The first is that the Indian Coal Grading Board adopted a method of grading coal different from that intended by the Coal Grading Board Act, 1935,¹ by basing their classification on analyses on a moisture-free basis. This is a more favourable treatment than the Act appears to have intended and must allot to many coals a considerably higher calorific value than the coal as used possesses, and consequently must, in many cases, allot a coal to a higher grade than would otherwise be the case, a matter to which I have already drawn attention.² The second cause is that the operations of the Indian Coal Grading Board have been extended far beyond the intended scope of the Act, namely to all coal of quality produced in the Damodar Valley coalfields instead of being restricted to coal actually shipped. This result was perhaps inevitable once it was decided to grade the coal seams themselves, instead of issuing certificates for cargoes as actually shipped. As a result thereof every coal owner, whether he was an exporter of coal or not, asked to have his seams graded. In practice this has meant not the grading of a seam as a whole, but section by section, so that instead of a seam being, say, first-grade as a whole, a portion of it was found to be of selected grade.

With the competition of the last few years and the continuous fall in the price of coal, the market has gradually concentrated on selected grade coal, which is now being sold at what must be regarded as rubbish prices. If a seam say 10 feet thick and on an average of first-grade contains a thickness of 4 feet of selected grade coal, this latter only may be worked, with the danger that the remaining 6 feet will never be worked at all. Consequently in addition to the recovery of say only 50 per cent. of those parts of seams that are worked, we have to contemplate the complete loss of the whole of the remainder. In the example given, the recovery on the whole seam would be only 20 per cent.

What are the remedies for this deplorable state of affairs in the Indian coal industry? Much has been written on this point, and I myself have given much thought thereto. I do not propose to enter

¹ See para. 24 of the Act.

² See *Rec. Geol. Surv. Ind.*, LXIII, pp. 190, 191, (1930).

into a discussion of all the possibilities, but only to state what appear to me to be the practicable and suitable remedies.

1. The first is that the lessors must be helped, in fact compelled, to look after their own interests, so that lessees are not allowed to work in such a manner that much of the coal that could be won is left underground. This means that the principles of good workmanship must be defined, and a Conservation Staff appointed to see that such methods are followed. As the mineral owners are not, as a rule, likely, for various reasons, to do this for themselves, it means Government intervention. The ideal method would be the formation of a new Government Department, a Coal Conservation Department [this is practically conclusion (1) of the Coalfields Committee]; but Government may find it easier to entrust the duties to the existing Mines Department.

2. Such improved methods will incidentally entail the extensive introduction of some method of stowing the voids, usually referred to as hydraulic stowing or sand-stowing. In most cases this cannot be done at present market prices, and the general opinion appears to be that sand-stowing will add on the average about one rupee per ton to the cost of mining the coal. The meaning of this is that with coal of the best quality now selling at Rs. 3 or under per ton, so that many companies can only just make a profit whilst many others cannot, even when making no provision for the extraction of pillar coal, that Rs. 4 per ton must be regarded as the minimum price per ton that coal of the best quality must fetch at the mines if the coal is to be worked in a workmanlike manner. The introduction of methods of conservation will in itself probably produce this necessary rise in price because it is obvious that, once improved methods are enforced, producers will not be able in many cases to sell at the present prices and will be compelled to withdraw from the market until remunerative prices are obtained.

3. There should be a change in the methods of grading coal so that certificates are issued only for coal as actually exported. This will entail the sampling and analysis of cargoes as shipped, the cost of which will be trivial in proportion to the value of the cargo. Such a method has long been in use for other minerals, *e.g.* manganese-ore, and must obviously be more satisfactory to the buyer. For with the present method of issuing certificates for seams or sections of seams in the ground, there is no guarantee that the purchaser receives what he has paid for. The purchaser of coal is really buying heat units, if the coal is to be used as fuel only, the purpose for which the major portion of the Indian coal is sold. As a purchaser I should

certainly wish to know the number of calories or heat units to be yielded by the coal purchased, and should therefore wish to buy on analysis ; in fact I should prefer to buy on a sliding scale with a price based on a certain number of calories, and a certain ash and moisture percentage. I should expect to pay a bonus for calories in excess and for ash and moisture below the standard figure, and, on the other hand, to exact a penalty for calories in deficit and ash and moisture in excess. In fact, in my opinion, one of the necessary improvements in the coal trade is that coal should be sold on analysis of the coal as actually loaded or delivered with bonuses or penalties according to variations from the analysis agreed upon for the quoted price. Such a change would rapidly remove the disastrous effect of the present grading scheme in directing preferential attention to selected sections of seams, with resultant danger of complete loss of the remainder of the coal.

It will be asked whether railway traffic and industries generally can stand a minimum price of Rs. 4 per ton for coal that the welfare of the coal industry requires. One answer to this question is that if the coal industry does not receive a fair price now, the premature exhaustion of many valuable seams will inevitably lead to very much higher prices eventually, with resultant great hardship to Indian industries. That the price of the coal of Bengal, Bihar and Orissa is at present unduly low in proportion to railway freights will be seen when I mention a figure recently given to me of coal offered at Rs. 2-8 a ton in the Damodar Valley costing Rs. 12-8 delivered at Satna in Central India, so that the freight on one ton of coal to Satna would have been equivalent to the cost of 4 tons of coal. As coal is the motive power for railway traffic, this is equivalent to saying that to the public it costs 4 tons of coal to move one ton. Further when one recalls the price that is eventually paid for Bengal coal upcountry and at Bombay, it is evident that an increase in price of Re. 1 would be only a small proportionate increase, and that its adverse effect in competition with coal imported from abroad could be neutralised by a corresponding reduction in long distance railway or shipping freights. The fuel that is the motive power of railways appears to have some claim for special treatment, for without coal there would have been no railways.

I have suggested above that the Damodar Valley coalfields require a minimum price of Rs. 4 per ton for first-class coal. What this price would mean with reference to India's ability to pay can perhaps be judged from the figures shown in the following table in which the price is given in the final year of each of the periods represented in the table on page 5, that is to say, every 5 years :—

Production of Coal from India, Jharia and Raniganj, every 5 years from 1903 to 1933.

	Total production Tons.	Jharia		Raniganj		Jharia + Raniganj. Per cent of total.	All India value per ton Rupees
		Tons	Per cent of total	Tons	Per cent of total		
1903	7,438,386	2,493,729	33.53	3,066,720	41.23	74.76	2 10 0
1908	12,769,635	6,458,643	50.59	4,221,781	33.06	83.64	3 15 0
1913	16,208,009	8,608,310	53.11	5,327,248	32.57	85.68	3 8 0
1918	20,722,493	10,952,010	52.85	6,368,519	30.74	83.59	4 6 0
1923	19,656,883	10,346,015	52.63	5,557,424	28.28	80.91	7 7 0
1928	22,542,872	10,665,479	47.31	6,460,490	28.66	75.97	3 15 0
1933	19,789,163	8,014,949	40.50	6,265,703	31.66	72.16	3 1 6
1934	22,057,447	9,057,546	41.06	6,795,838	30.81	71.87	2 13 9

From this table you will see that the average value at pit's mouth of all-Indian coal increased steadily from Rs. 2-10 in 1903 to Rs. 4-6 in 1918, and Rs. 7-7 in 1923, falling to Rs. 3-1-6 in 1933, and finally to 2-13-9 in 1934. By 1934, prices had in fact fallen to the price of 31 years ago before the cost of so many items in the cost of production had increased ; and it seems quite evident that in 1934 a fair price to coal must be greater than that of 1903. Other columns of this table show the total production of coal in India for the selected years and also the production of Raniganj and Jharia coalfields separately, from which it will be seen that the production of these two fields rose from nearly 75 per cent. of the total in 1903 to nearly 86 per cent. in 1913, and has since fallen steadily to 72 per cent. Even with this reduced percentage the output of these two fields forms such a large proportion of the total that it is quite evident that the premature exhaustion of either of these fields will be a major calamity to the Indian coal mining industry. It is to be remembered that unless something is done to check present trends, the Jharia coalfield, which during the period reviewed has produced from 33 to 53 per cent. of the total Indian output, will be finished in less than 30 years, except in so far as smelting companies have secured portions of this field for their own purposes, in which case the remainder of the field will be exhausted still quicker.

Whilst recognising that the coal industry requires a higher price for coal in the interests not only of the industry, but also of the welfare of India as a whole, my personal anxiety has been that this increased price should not be obtained by the industry except in return for the *quid pro quo* of improved methods of work.

III. CONCLUSION.

The Government of India are understood to have in hand a scheme for enforcing the conservation of coal in India. My plea to the coal industry is that when this scheme is made public, they do not proceed to decry every part of the scheme that affects them personally, as was done in 1922, but that instead they welcome the scheme as being in the best interests of all in the long run, and that they even invite Government to take a more effective line, if they consider that Government's proposals are not sufficiently far-reaching.

I hope the Society will consider that I have done well in making use of this occasion to draw public attention once more to this very serious question of the certain premature exhaustion of some of India's most valuable coal reserves if nothing effective is done to introduce improved methods of work in the Indian coalfields ; for in a relatively few years India will be faced with what will then be regarded as a national disaster of the first magnitude.

This evening my period of service as your President comes to an end. I am conscious that during my term of office I have not succeeded in effecting all the improvements I should have liked to effect: but this must be the experience of every retiring President. So I take this opportunity of thanking the Council and members of the Society for the encouraging support they have given during this very interesting period, which has included the 150th anniversary celebrations. And, finally, I hand over this Chair to my distinguished successor H.F. Sir John Anderson.

L. L. FERMOR.

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*Elected and announced in the Annual Meeting,
3rd February, 1936.*

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N. G. Majumdar, Esq., M.A.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

K. C. Mahindra, Esq., B.A. (Cantab.).

M. Mahfuz-ul Haq, Esq., M.A.

EXHIBITION ANNUAL MEETING.

LIST OF EXHIBITS SHOWN AFTER THE ANNUAL MEETING OF THE ASIATIC SOCIETY OF BENGAL, ON THE 3RD FEBRUARY 1936.

1. A. F. M. ABDUL ALI.

Miscellaneous Historical Documents.

- (1) List of Fees of the Chaplaincy of Fort William.
(Pub. O.C., 26 Oct., 1761, No. 3.)
- (2) Copy of letter from Lieut.-Col. Archibald Campbell and Major Henry Watson submitting proposals relative to the construction of docks, etc.
(Pub. Con., 27 Mar., 1770, Nos. 2(a), 3(a) and 4(a).)
- (3) Letter from Lieut.-Col. J. Fortnom, Chief Engineer, submitting the plans of Fort William.
(Pub. Con., 24 Mar., 1775, No. 1.)
- (4) Draft of a letter to Monsr. Chevalier, acquainting him with the provisions made for the subsistence of the Frenchmen at Chandernagore and for the disposal of the captured property, and requiring him to come to Calcutta, or to depart for Europe.
(Pub. Con., 2 Sep., 1778, No. 11.)
- (5) Letter from Messrs. T. Motte and E. Maxwell, Superintendents of Police, suggesting measures for reducing the high price of provisions, and enclosing a plan for regulating the wages of menial servants.
(Pub. Con., 3 Apr., 1786, Nos. 25-26.)
- (6) Proceedings of the Committee for enquiring into the causes of the scarcity of silver coin.
(Pub. Con., 6 Dec., 1787, No. 28.)
- (7) Copy of the proceedings of the vestry of St. John's regarding leasing the court-house to the Company.
(Pub. Con., 9 Feb., 1795, No. 2.)
- (8) Patna Massacre and Grant of the Diwani to E.I. Company.
(Photographic copies.)
- (9) Petition of the Greek inhabitants of Calcutta requesting permission to erect a chapel.
(Pub. Con., 11 Apr., 1774, No. 4.)
- (10) Copy of Proposals of Agreement of Nuhkossen and Gocul Gosaul to farm the Calcutta Town and Lands.
(Pub. Con., 20 Aug., 1767, No. 1.)
- (11) Letter from the Rev. J. Z. Kiernander, asking the Board to exempt the Protestant Mission buildings and burial ground from the payment of rent and taxes.
(Pub. Con., 1 Sep., 1777, No. 15.)

(12) Copy of a letter from the Commissioner of Police, transmitting a complete estimate of the value of all the shops, lands, houses, tenements and hereditaments in the town of Calcutta, as well as the assessment of a tax for the year 1781, intimating that for the present the full tax permitted by the ordinance must be levied, and requesting the Board to signify their approval of the assessment in writing.

(Pub. Con., 2 July, 1781, No. 1.)

(13) Letter from the Commissioners of Police, explaining why no tax had been previously levied on the houses of the Chowringhee quarter of Calcutta.

(Pub. Con., 4 Apr., 1787, No. 19.)

(14) Copy of a petition from some native inhabitants of Calcutta setting forth their grievances against the continuance of the assessment, and praying that Mr. Meyer may be authorized to submit a report on the allegations and that their grievances may be redressed.

(Pub. Con., 7 May, 1790, No. 6.)

(15) Petition from Ramgopal Babu and Giridhar Babu, on behalf of the native inhabitants of Calcutta, representing the hardships of the poor people on account of the rigorous enforcement of the collection of house tax in Calcutta, and soliciting redress.

(Pub. Con., 24 Aug., 1792, No. 17.)

2. ARCHÆOLOGICAL SURVEY OF INDIA.

(1) *Terracottas from a big mound near Ghosi, Dist. Azamgarh, U.P.*

Bricks of Gupta and Mauryan period and coins, beads, etc. were also found in the mound which is reported to be fairly extensive and high. Ghosi, according to the Padma Purāna, was an important centre of pilgrimage. The height of the mound (which is reported to be from 40-50 feet) and its extensive area (about 117 bighas) indicate that it must be a large settlement continued over a considerable period. The terracottas were found in a confused and disturbed condition. Perhaps a fuller and most systematic exploration of the site might yield antiquities of a much earlier period.

(2) *Navagrāma grant of the Mahārāja Hastin (G.E. [1]98) from Nagod State, C.I.*

The plate consists of the left half of the first of two plates forming the complete grant. The characters belong to the northern class of alphabets. The language is Sanskrit and the record is in prose. The plate records the grant of a village called Navagrāma in the *rāṣṭra* of the Pulinda chief (apparently a feudatory of the *nripati-parierājakas*), by the Mahārāja Hastin in the year 98 (increased by 100). The donees were brahmins of the Parāśara-gōtra and Mādhyandina-śākhā (of the white Yajurveda). The year 198 of the present plate must be considered to be the last date of Hastin whose successor Samkshobha issued the Betul grant in the year 199. The earliest known date of Hastin being 156, the year of his Khoh copper-plate, he must have enjoyed a long reign of over 42 years. The known dates of Hastin (156, 163, 191, and 198) and Samkshobha (199, 209) are to be referred to the Gupta era. The mention of MAHĀSVAYUJA-SAMVAT'SARA with the Gupta year 198 enables us to fix the date of the present record within a narrow compass. The year 198

C.E. commenced on 9th March, 517 A.D., and the Mahāśvayujasamvatsara ended on or about the 23rd April, 517 A.D., and the present record must be dated within these limits. The missing month may be supplied as Chaitra (in which case the fortnight must be the bright fortnight) or Vaiśākha.

(3) *Sculptures from Sārṇāth.*

(i) Sandstone torso of a Yakṣi? or Chauri-bearer assigned to the Śuṅga times. Note crisp and close-fitting waist-girdle and atrophied waist which reminds one of Bharhut.

(ii) Statuette representing the Buddha. The figure displays all the serenity and deep calmness that characterize the best in the Sārṇāth type of Buddhas. For sheer æsthetic appeal and overpowering divine inspiration the specimen stands unrivalled. 5th or 6th century A.D.

(iii) The hand of Buddha indicating *abhaya*, 'protection'. Interestingly enough it is painted red and the fingers display a delicacy and slenderness that bespeak the Buddha's universal compassion. 5th or 6th century A.D.

(iv) Bust of a female figure. Facial expression which is divine and indicative of composure points to the figure being that of a goddess. The figure reminds one of a figure of Tārā also from Sārṇāth in the Indian Museum which it resembles closely and may be considered to date like the latter from the 8th century A.D.

(4) *Inscribed Buddhist bronzes from the old Buddhist Vihāras at Negapatam, South India.*

Here are 13 such inscribed bronzes representing the Buddha, out of a huge find of about 300. From a study of the inscriptions on them their dates may be said to range from the 11th to the 15th centuries A.D. Buddhism was really flourishing at Negapatam as late as the 15th century A.D. Buddhists from Sumatra and Java settled down at Negapatam in the time of the Śailendras (9th century A.D.) and their religion was patronized by the Imperial Cholas (875-1250 A.D.).

The inscriptions on the bronzes exhibited can be translated as follows :-

1. (6931) *Udayāndālqa.*

'May He (the Lord) live and rule.'

Here we have a prayer that the Buddha should live and that his Dharma must prosper.

2. (6932) *Sokkar.*

'(The Lord, who is) Light.'

There is a reference here to the Buddha as the Supreme Light.

3. (6934) *Tiruvaraṅga Nāyakar.*

'The lay follower, Tiruvaraṅga.'

Here we have the donor's name who made the votive offering.

4. (6891) *Śāriyipiḷlai Nāyakar.*

'The lay follower, Śāriyipiḷlai.'

Śāriyipiḷlai is the Tamil equivalent for Śāriputra. The donor is evidently named after Śāriputra.

5. (6908) *Āḷudui piḷlai.*

'[The lay follower], Āḷudai piḷlai.'

6. (6910) *Sanḱāṇḍāl Nāyakar.*

'The lay follower, Sanḱāṇḍāl.'

7. (6913) *Naṅgai piḷḷai Nāyakar.*
'The lay follower, Naṅgai Piḷḷai.'
Naṅgai Piḷḷai would mean 'son of the lady'.
8. (6916) *Ānandar Devar.*
'The Deva Ānanda.'
Here there is a reference to an Ānanda, some Buddhist Bhikshu, or head of the *viḥāra*, who is called a Deva.
9. (Y) *Svasti Sri Tiruvinaṭi tulaṭi Periyamāṇālar.*
'Hail, prosperity. The great bhikshu-devotee, the remover of sins and fate's workings.'
The donor is evidently a bhikshu of eminence.
10. (6893) *Pālan malai yati arai Devar.*
'The Deva (bhikshu), the king of ascetics, from Pālanmalai.'
The donor is a great bhikshu hailing from a hill called Pālanmalai, the whereabouts of which are unknown.
11. (6902) *Mulai Śrama . . .*
An incomplete inscription which speaks of a *Sramaṇa*, probably a donor.
12. (6915) *Ariyārar Nāyakar.*
'The lay follower (H)arihara.'
The donor is one Harihara (a Hindu name) who had evidently become a convert to Buddhism.
13. (6940) *Tillai.*
This may be the name of a person. But usually by Tillai one will understand Chidambaram, a place of Hindu pilgrimage in S. India, the seat of Natarāja.

3. K. BISWAS.

Some of the common plants of Bhutan including the recent collection of His Excellency Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.

Turner (1783) and Griffith (1838) are the two earliest collectors of Bhutan plants. Cooper of Edinburgh made some collections during 1914-1915. Collection of what was formerly within Bhutan territory up to Sinchula was made by me. But a substantial collection from the border of Western Bhutan up to an elevation of about 18,000 ft. has been made during last October by H.E. Sir John Anderson. The plants and illustrations exhibited are some of the species from these collections representing more or less different altitudinal zones.

4. L. BOGDANOV.

A Persian (Isfahan) stencilled wall-hanging (qalamkār) said to represent the poet Hāfiẓ. Size: 6 feet, 3 inches by 11 feet, 1 inch.

The poet is seen in the picture sitting on a chair, whilst two attendants, one male and one female, are holding behind him and his companion a curtain intended, obviously, to screen him from indiscreet eyes. A third attendant is sitting on the floor at the poet's feet holding a vessel with wine. In the background a hill with trees and buildings is roughly delineated. In the foreground at the poet's feet can be seen a tank with a swimming water-fowl. The whole is enclosed in a delicately traced treble border of floral designs. The

picture bears an inscription in the right-hand top-corner saying that it was made to order for Mīrzā 'Alī al-Ḥākī in 1339 A.H. (=1920 A.D.).

5. CHINTAHARAN CHAKRAVARTI.

A number of Old Manuscripts in the Bengali Script.

(1) Setubandha of Pravarasena (A.S.B. Cat. No. 5801) copied in Lakṣmaṇasamvat 102 (?) (1222 A.D.).

(2) Bhaṭṭikāvya (A.S.B. Cat. No. 5057) copied in Śaka 1326 (1404 A.D.).

(3) Bodhicaryāvatāra (A.S.B. Cat. No. 19) copied in Samvat 1492 (1435 A.D.).

(4) Prasannarūghava of Jayadeva (A.S.B. Cat. No. 5343) copied in Śaka 1414 (1492 A.D.).

(5) Dharmaratna of Jñātavāhana (A.S.B. Cat. No. 2653) copied at a date earlier than Śaka 1417 (1495 A.D.).

(6) Mītakṣarā of Viṣṇuśekhara (A.S.B. Cat. No. 1870) copied in Lakṣmaṇasamvat 399 (1519 A.D.).

(7) Śiśupālavadhānam (A.S.B. Cat. No. 5073) copied in Śaka 1436 (1514 A.D.).

(8) Kūrātārjunīya (A.S.B. Cat. No. 5039) copied in Śaka 1438 (1516 A.D.).

(9) Śūdrapaddhati of Apīpāla (A.S.B. Cat. No. 2141) copied in Śaka 1442 (1520 A.D.).

(10) Śūdrapaddhati of Apīpāla (A.S.B. Cat. No. 2142) copied in Śaka 1446 (1524 A.D.).

(11) Commentary on Rāvanavadhānam (A.S.B. Cat. No. 5802) copied in Śaka 1457 (1535 A.D.).

(12) Mahābhārata (Draupadī-parvaṇ) (A.S.B.) estimated to be 400-500 years old.

(13) Kṛṣṇakīrtana of the Library of the Vaiṣṇava Sāhitya Parishat (supposed to have been copied towards the end of the 14th century).

(14) Harivaṃśa of the Library of the Vaiṣṇava Sāhitya Parishat copied in Śaka 1387 (1465 A.D.).

(15) Mahābhārata (Ādi-parvaṇ) of the Library of the Vaiṣṇava Sāhitya Parishat copied in Śaka 1422 (1500 A.D.).

(16) Raghuvamśam of Kālidāsa of the Library of the Vaiṣṇava Sāhitya Parishat copied in Śaka 1452 (1530 A.D.).

6. SIR LEWIS L. FERMOR.

(1) *Carved Tibetan book cover.*

Group of mythological figures within an ornamental border. In the centre Avalokiteśvara. To the left Mañjuśrī, to the right Vajrapāṇi. To the left of Mañjuśrī, below, the Black Jambhala. To the right of Vajrapāṇi, below, the Yellow Jambhala. Round the central figure various representations of the Buddha showing different mudrās. In the upper row smaller representations of Śākyamuni, Maitreya, Aparimitāyana, Tārā and others.

(2) *A wooden glud-par or 'ransom-printer' from Tibet.*

Tibet is a magic-ridden country. In disease, trouble or perplexity the magician is called in to give his help. One of his operations

consists in making a kind of scapegoat-images from barley or wheat dough. By proper incantations and the required rituals the evil spirit is imprisoned in this cake to be thrown away. The 'ransom-printer' here exhibited shows on one side the twelve years of the Tibetan year-cycle. If the year is found to be malignant, its influence is also magically transferred to the ransom-cake and thrown away. Another side shows the various authors of misfortune, evil spirits of different kinds, to be dealt with in the same manner. The house of misfortune is also represented, as well as various animals, to be offered in effigy to the gods, a divination table, and other items used in the ritual.

7. GEOLOGICAL SURVEY OF INDIA.

(1) *Miscellaneous collection of geological specimens.*

The exhibit this year is mainly of an economic nature.

A series of specimens, displayed on a flow sheet, illustrates the copper industry which, during the last 5 years, has become firmly established in Singhbhum. The stages of smelting, from the copper ore, are traced; most of the refined copper is smelted with zinc (obtained from Australia), to yield brass (or yellow metal) which is so readily absorbed in the Indian bazaars.

Part of the exhibit illustrates something of the iron and steel industry. Specimens of a furnace charge are displayed—hematite (iron-ore), limestone, and coke.

For comparison with artificial coke, a specimen of natural coke is shown—this has been found along a thin sill of igneous rock which was injected into a coal seam.

Two specimens of coal illustrate the various components of normal coal, and also the curious 'ball-coal' sometimes found in coal seams.

Specimens of kyanite and sillimanite are typical examples of these minerals which have assumed such an importance in the glass and refractory-ware industry.

A large specimen of lepidolite is from an occurrence only recently found in India by an officer of the Geological Survey. Lepidolite is the principal source of lithia.

Bauxite specimens are exhibited, showing their typical structure. India's resources in this ore of aluminium are enormous, and they have yet to be widely exploited.

The rock salt industry of the Punjab is represented by some crystals of rock salt—also by three carvings from rock salt.

Quite a number of meteorites have fallen in India during recent months. They are represented here by three types: iron, stone, and stony-iron meteorites.

The specimens are suitably described by accompanying labels.

(2) *Series of water-colour drawings.*

1. *Mayo Salt Mines, Khewra (Punjab).*

Original water-colour drawing by A. B. Wynne, Geological Survey of India.

This water colour, made by Wynne during his survey of the Salt Range in the seventies of the last century, is illustrative of the type of scenery met with in that area.

The lower parts of the range are composed of the bright red Salt Marl, so prominently shown in this water colour. Within this red

marl of the Salt Mine hill just above Khewra village, seams of rock salt totalling at least 500 feet in thickness are included. These deposits have been exploited by mining since early historical times.

2. *Bhooj in Kutch.*

Original water-colour drawing by A. B. Wynne, Geological Survey of India.

This water colour, painted in 1869, shows the dipping Deccan trap and volcanic ash beds of Bhooj, which overlie steeply-dipping sandstones of Upper Jurassic age.

3. *The Girnar Peak from Datar hill.*

Original water-colour drawing by A. B. Wynne, Geological Survey of India.

The rugged hills illustrated in this painting are composed largely of gabbro.

8. S. L. HORA.

Drawings of the Aquarium Fishes of India.

Quite a large number of Indian Aquarium fishes are highly prized in America and Europe but very little attention as hitherto been paid to these forms in this country. A set of drawings of these fishes in their natural colours and habitats has been prepared for exhibition in the Fish Gallery of the Indian Museum.

All the fishes exhibited here are found in ponds and pools in the neighbourhood of Calcutta and can be obtained without much difficulty. Generally, they can be kept in an aquarium with much less attention than the imported and more delicate 'Gold Fishes'.

9. M. HIDAYAT HUSAIN.

Tuḥfat al-Aḥbār fī Uṣūl al-Ḥadīth wa'l Akḥbār.

This is an entirely unknown work on the Science of Ḥadīth in which the classification and criticism of Ḥadīth (the record of actions or sayings of the Prophet and his Companions) are described by al-Ḥāfiẓ Abū'l Maḥāḥir 'Abdallāh bin 'Abd ar-Raḥmān bin 'Abd al-Laṭīf al-Ḥusainī al-Wā'iẓ.

From the perusal of this work it appears that he was a pupil of eminent Muḥaddithīn (Traditionists) such as 'Abd ar-Raḥīm bin al-Husain al-'Irāqī (born A.H. 725, A.D. 1325, died A.H. 806, A.D. 1404), Shams ad-Dīn Abū'l Khair Muḥammad bin Muḥammad bin Muḥammad al-Jazarī (born A.H. 751, A.D. 1350, died A.H. 833, A.D. 1429), and (ḡhayāth ad-Dīn Abū'l Khair 'Abd ar-Raḥmān (the father of the author).

He wrote the work at Kirmān and dedicated it to the Chief Justice of the city 'Abd al-'Azīz at-Tūrānpushtī. The work was completed in A.H. 830 (A.D. 1426).

He is also the author of another work on Ḥadīth called *al-Musalsalā*. The *Musalsal* is a Ḥadīth (tradition) which can be traced through an unbroken chain of trustworthy authorities to a companion of the Prophet. It records that all the narrators handed

down the traditions in question by solemn oath as to its truth or by clasping hands with the hearers in token of good faith. The first method is called *Musalsal al-half*, the second *Musalsal al-yad*. Of this work also no copies seem to be known.

The copy of the work exhibited is written in a very fine Naskh by 'Abd ar-Rahmān al-Bahrāmī ash-Shirāzī.

No copy of the work is found in any public library in India and Europe, nor mentioned in any accessible bibliography.

It was purchased by Mr. Johan van Manen in Calcutta.

The sole value of the volume is not its rarity. Of still greater importance is the nature of its contents. The manner of treatment is methodical, scholarly, and original. It is difficult to explain how so important a work could have escaped the attention of students and bibliographers of *Ḥadīth*. Its discovery is of importance.

10. JOHAN VAN MANEN.

Some Tibetan Tankas.

Of late years increasing interest has been shown in Tibetan scroll-paintings, or tankas. G. de Roerich has in 1925 published a valuable monograph on the subject in which a large number of such tankas were reproduced. An appreciable amount of material on the subject is now available in print. The statement made in 1925 that 'our present knowledge of Tibetan pictorial art is not sufficient to enable us to discuss various schools of art' remains true.

It is, nevertheless, possible to discuss special points which from time to time arise. The purpose of this exhibit is to draw attention to a style of painting of a very distinct character, of which the examples known to the exhibitor are of a high artistic quality. The style is different from that of the majority of tankas, which are executed in a great variety of colours on the same scroll, and is limited to the use of a black background with all outlines in thin gold lines and the use of only red, or red and white, to colour clothing and skin.

A few samples are exhibited, showing various stages of development, and for purposes of comparison samples of the more common type of tanka are placed in juxtaposition.

11. J. N. MUKHERJEE, S. R. PALIT, and B. R. MAZUMDAR.

Displacement of equilibrium at interfaces.

The displacement of the equilibrium in an aqueous solution when shaken with an immiscible solvent can be easily illustrated by using solutions of suitable indicators. The development of acid and alkaline reactions by the double decomposition of neutral salts of strong acids and bases is also illustrated by simple reactions.

12. BARON W. OW-WACHENDORF.

(1) *The Buddha, representing the miracle of Sravasti, flames issuing from both shoulders.*

Grey schist. Found in tribal territory north of Rawalpindi. About 150 A.D.

(2) *Stone Head of a female Goddess.*

Red sandstone. From the Central Provinces. About 500 A.D.

(3) *Crowned figure sitting on a throne. Second figure missing.*

Bronze. Rare specimen from the Kulu Valley. Early VIIIth century A.D.

(4-5) *Two figures, Vishnu and Lakshmi.*

Copper bronze. IXth and XIth centuries A.D. Similar to the Kurkihar and Nalanda Bronzes. Undoubtedly school of Bihar. Found at top of Manikiala Stupa near Rawalpindi.

13. GANAPATI SIRCAR.

A Copper Inscription from Nandapur.

On the east bank of the Ganges there is a village, Nandapur, two miles from Surajgarh, Monghyr, in Bihar. In this village, on the Ganges, there is a very old dilapidated temple, known as the temple of 'Burha Siva'. One portion of it has already been washed away by the Ganges and the remaining portion may go down any time. In this portion, fixed in a wall, this copper inscription was discovered. Mr. U. Ghose sent it to the exhibitor in February, 1929.

Length— $6\frac{1}{2}$ inches, with its head about 8 inches. Breadth— $4\frac{1}{2}$ inches. Character—Gupta Period. This inscription, not yet deciphered, is exhibited for the first time. Written on both sides—in front 15 lines, on the reverse 4 lines.

14. THE GENERAL SECRETARY.

(1) *The Society's publications of 1935.*

- (a) Journal and Proceedings.
- (b) Memoirs.
- (c) Advance Proceedings.
- (d) Bibliotheca Indica.
- (e) Proceedings, Indian Science Congress.

(2) *Some acquisitions of interest to the Library during 1935.*

- (a) Presentations.
- (b) Purchases.

(3) *Some recent publications by Members of the Society.*

- (a) Caland, W: *The Kāthakagrihya-sūtra*. Lahore, 1925.
- (b) Chakravarti, Sukumar: *Caitanya et sa théorie de l'amour divin*. Paris, 1933.
- (c) Chakravarti, Chintaharan: *A Descriptive Catalogue of the Sanskrit Manuscripts in the Vangiya Sahitya Parishat*. Calcutta, 1935.
- (d) Law, Bimala Churn: *Śrāvasti in Indian Literature* (Mem. Arch. Surv. India, No. 50). Delhi, 1935.
- (e) Konow, Sten: *Saka Studies* (Oslo Etnograf. Mus., Bull. 5). Oslo, 1932.
- (f) Bodding, P. O.: *A Santal Dictionary*. Vol. 2. Oslo, 1934.
- (g) Woolner, A. C.: *The Jasmine Garland (Kundamala)*. Translated into English. Oxford, 1935.
- (h) Chanda, Ramaprasad: *Medieval Indian Sculpture in the British Museum*. London, 1936.

- (i) Prasad, Ganesh: A treatise on spherical Harmonics and the functions of Bessel and Lamé. Part I (Elementary). Benares, 1930.
- (j) Prasad, Ganesh: A treatise on spherical Harmonics and the functions of Bessel and Lamé. Part II (Advanced). Benares, 1932.
- (k) Tucci, Giuseppe: Indo-Tibetica II. Rin C'en bzañ po e la rinascita del Buddismo nel Tibet intorno al mille. Roma, 1933.
- (l) Tucci, Giuseppe: Indo-Tibetica III. I Templi del Tibet occidentale e il loro simbolismo artistico. Part I. Spiti e Kunavar. Roma, 1935.
- (m) Tucci, G. and Ghersi, E.: Cronaca della missione scientifico Turci nel Tibet occidentale (1933). Roma, 1934.

(4) *Manuscript Drawings of Indian Fish and other animals recently acquired by the Asiatic Society of Bengal.*

These drawings, 146 of fish and 53 of other animals, have been acquired by the Society at the suggestion of Dr. S. L. Hora.

At the top of each drawing is written in pencil the scientific or the vernacular Indian name. In addition there are notes written in an old system of shorthand.

The paper of most of the drawings has a water-mark dated 1794, while some sheets are dated 1798. This shows that the drawings were made towards the end of the eighteenth century.

Now that the drawings are available in India, their history will be worked out in detail and the results presented to the members of the Society in due course. The greatest importance of these drawings lies in the fact that they add a new chapter to the history of Indian ichthyology. So far Hamilton (once Buchanan) has been regarded as the first person who made a systematic study of the freshwater fishes of India, but the drawings under report show that someone had an equally keen interest in the study of these fishes before him.

With the new acquisition, the Asiatic Society of Bengal now possesses a unique collection of manuscript drawings of Indian fishes of great historic value.

(5) *Selection from the Arabic and Persian MSS. acquired during 1935.*

- (a) *Tārīkh-i-Ishāhān*, Two Volumes.
 - (b) *Tārīkh-i-Ibn-i-Asākir*, Seven Volumes.
 - (c) *Tazkirat-ul-Huffaz*, Four Volumes.
 - (d) *Lisānu'l-Mizān*, Six Volumes.
 - (e) *Tahzīh-ul-Tahzīb*, Twelve Volumes.
 - (f) *Tārīkh-i-Baghdād*, Fourteen Volumes.
 - (g) *Shazarātu'z-Zuhab*, Eight Volumes.
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ANNUAL REPORT FOR 1935.

The Council of the Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1935.

1. Ordinary Members.

Gains and losses.—These were as follows during the year :—

<i>Gains.</i>		<i>Losses.</i>	
Elections carried forward ..	8	Elections carried over ..	7
New elections ..	29	Applications withdrawn ..	2
		Elections lapsed ..	2
		Deaths ..	10
		Resignations ..	23
		Rule 38 ..	10
	—		—
Total ..	37	Total ..	54
	—		—

Initial total 442 ; net loss 17 ; final total 425.

Rule 38.—This Rule, dealing with members whose subscriptions are in arrears, was strictly applied and the names of 10 Members were subsequently removed from the roll for this cause.

Membership List.—The customary detailed cross-check of the membership lists with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 107, leaving more than ever room for substantial expansion.

Life-members.—The total of our Life-members has decreased by one and now stands at 56. One was lost by death ; and no Members compounded during the year.

Deaths.—This year the loss to the Society by death has been heavy. Amongst the distinguished and especially valued members lost to us, whose memory will be cherished, and for whose departure the Society is the poorer, the following may be mentioned :—

Dr. P. J. Bruhl (Life-member, 1909 and Ordinary Fellow, 1912).

Khan Bahadur Abdul Gaffar (Ordinary Member, 1926).

A. G. Lunan (Ordinary Member, 1929).

Dr. Jatindranath Maitra (Ordinary Member, 1918).

F. Williamson (Ordinary Member, 1934).

Dr. Ganesh Prasad (Ordinary Member, 1935).

Dr. Narendranath Basu (Ordinary Member, 1928).

2. Associate Members.

During 1935 one Associate Member was lost by death :—

Rev. Father H. Hosten, S.J. (1910).

No new Associate Member was elected during the year. The present number stands at 5 ; statutory maximum 15.

3. Special Anniversary Honorary Members.

During the year the Society received to its great regret news of the death of one of the 12 Special Anniversary Honorary Members elected last year at the occasion of its 150th Anniversary :—

Dr. Henry Fairfield Osborn (1934).

4. Institutional Members.

During the year no new institution was admitted to this class of membership.

Their total number remains the same, namely 7.

5. Ordinary Fellows.

On the date prescribed by the regulations for the issue of nomination papers for the election of new Fellows there were no vacancies and consequently no election took place at the Annual Meeting held on the 4th February, 1935.

We lost through death the following two Ordinary Fellows :—

Lt.-Col. H. W. Acton (1930).

Dr. P. J. Bruhl (1912).

The following Ordinary Fellow resigned his membership in the Society :—

Sir C. V. Raman (1925).

At the end of 1935 the number of Ordinary Fellows was 44 ; statutory maximum 50.

6. Honorary Fellows.

During the year no scholars were newly elected Honorary Fellows, and the following two distinguished Honorary Fellows were lost by death :—

Dr. Herbert Allon Giles (1917).

Dr. Sylvain Lévi (1920).

Their number at the end of the year was 24 ; statutory maximum 30.

7. Obituary.

During the year the Society received to its great regret news of the death of the following distinguished relations :—

Sir John Thompson (An Ordinary Member, from 1909 to 1933).

Sir D. P. Sarvadhikary (An Ordinary Member, from 1924 to 1935).

Dr. G. N. Mukhopadhyaya (An Ordinary Member, from 1908 to 1931, and Fellow, from 1923 to 1931).

8. Condolences.

The Council expressed its condolences at the occasion of the death of the following distinguished personality deceased during the year :—

M. L. Finot, First Director of the French School of the Far East.

9. Council.

The Council met 13 times during the year. The attendance averaged 9 of the 19 component members.

The following resolutions of thanks were passed by the Council :—

To the Outgoing Members of Council for their services rendered to the Society and for their valued support given to the Council and a special vote of thanks to Sir Rajendra Nath Mookerjee.

To Baron Ow-Wachendorf for presenting to the Society the Official German Record of International Policies of the Great European Powers from 1871 to 1914, in 54 volumes.

To Sir B. L. Mitter for presenting to the Society a portrait of the late Mr. Pramatha Nath Bose.

To Sir B. L. Mitter for a donation for the institution of a medal in memory of the late Mr. Pramatha Nath Bose.

10. Office Bearers.

The changes in the Council during the year were as follows :—

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora, absent, from 12-3-35 to 29-3-35, and from 25-9-35 to 15-10-35.

Absences other than those mentioned above were :—

Sir Lewis Fermor, absent from 15-1-35 to 1-2-35; from 18-4-35 to 5-8-35; and from 17-9-35 to 1-11-35.

Dr. A. M. Heron, absent from 1-1-35 to 1-4-35; from 15-5-35 to 15-6-35; and from 25-9-35 to 18-10-35.

Mr. L. R. Fawcus, absent from 1-1-35 to 15-4-35; from 1-11-35 to 31-12-35.

Mr. Percy Brown, absent from 1-4-35 to 1-7-35.

Lt.-Col. R. N. Chopra, absent from 18-4-35 to 17-7-35.

Sir B. L. Mitter, absent from 11-4-35 to 25-6-35; and from 1-9-35 to 1-11-35.

Dr. S. K. Chatterji, absent from 1-5-35 to 1-9-35.

Dr. J. N. Mukherjee, absent from 31-5-35 to 30-9-35.

Sir U. N. Brahmachari, absent from 3-6-35 to 10-7-35.

Mr. C. C. Calder, absent from 1-6-35 to 1-12-35.

R.B. R. Chanda, absent from 5-8-35 to 9-9-35.

Justice Lort-Williams, absent from 15-7-35 to 5-11-35.

11. Committees of Council.

The standing Committees of Council during the year, namely, the Finance, Publication, and Library Committees, met monthly.

The following special sub-committees were appointed during the year :—

Sub-committee to review the general question of the creation of a new form of Associate Membership.

Sub-committee to draft a letter to be considered in circulation, with reference to the proposed cessation of excavations at Mahenjo Daro.

12. Finance Committee.

The Finance Committee continued during the year to meet on dates different from, and a few days prior to, those of the Council Meetings.

A Special Meeting to frame the budget for the next year was held in December.

13. Office.

Staff.—Mr. N. M. Ramachandran, File Clerk, left towards the end of the month of June and Mr. N. Norman was placed in charge of the filing.

Subordinate Staff.—In the subordinate staff the usual minor changes took place, which do not call for comment.

Correspondence.—This year the number of outgoing letters was 1,539 and that of incoming letters 2,601.

Files.—During the year intermittent work was continued with regard to our files, old and new, but not much real progress can be reported.

Stock-room.—Labelling, bundling, and registration of the contents of the stock-room were kept up-to-date during the year for new publications. The stock-books for new accessions and for sales were kept up.

Distribution.—No change was made in the mode of distribution of our periodicals and notices. A better system for the distribution of the free copies of new issues in the *Bibliotheca Indica* should be devised.

Address.—Printed address labels remained in use and the system of constant revision and addition which has been adopted enables us to keep the printed addresses up-to-date, month by month.

Card Register.—The card registers of the Society's membership and of that of the Indian Science Congress were kept up-to-date and checked at the close of the year.

Circulars and Forms.—The number of these printed during the year was 57. About Rs. 694 were expended under this head.

Office Furniture.—One office table and four wall-shelves for the library were acquired, as also two steel skeleton racks for files and current papers.

Office Manual.—This still remains a desideratum.

Arrangement.—No change was made in the present disposition of the rooms except that a room on the ground floor was vacated and placed at the disposal of the National Institute of Sciences of India for its office.

14. Rules and Regulations.

During the year no changes were made in the Rules of the Society except that some minor changes were adopted in the Regulations of all the memorial awards. The Council framed Regulations for the award of the Pramatha Nath Bose Memorial Medal.

15. Indian Science Congress.

Twenty-second Session.—The Twenty-second Annual Meeting of the Indian Science Congress, inaugurating its fourth circuit, was held (for the fourth time) in Calcutta, from January 2nd to January 8th, 1935, under the joint patronage of His Excellency the Right Honourable Earl of Willingdon, G.M.S.I., G.C.M.G., G.B.E., Viceroy and Governor-General of India, and His Excellency the Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.

President.—Dr. J. H. Hutton, C.I.E., M.A., D.Sc., F.A.S.B., I.C.S., Deputy Commissioner, Kohima, Naga Hills, was President of the Congress.

Proceedings.—The Proceedings of the Congress were published during the second week of December. The publication contained 632 pages which was 88 pages of letterpress more than the year before. The number of abstracts sent in for reading to the Congress numbered this year 776 as against 626 last year.

Administration.—During the latter months of the year the usual administrative work for the Congress in connection with the next session (Twenty-third Congress), to be held in Indore, was performed by the Society's office, which also attended to the general administration of the Congress when this was not in session. This year the burden of work thrown on the Society's office was as heavy as usual.

Programme and Abstracts.—As in the previous years the programme of the meeting and the abstracts were sent, as far as was practicable, by post to all Members who had applied for membership before the date of their publication. This year this date was 5th December, two weeks earlier than last year.

Finance.—The Congress finances remained separate from those of the Society.

Secretaries.—The General Secretaries to the Congress were Dr. J. N. Mukherjee and Mr. W. D. West; and the Managing Secretary was Mr. Johan van Manen in his quality as General Secretary of the Asiatic Society of Bengal.

16. Indian Museum.

The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act, X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt., who was reappointed as such for a further period of three years.

17. Kamala Lectureship.

The Society's nominee to serve on the Election Committee of the Kamala Lectureship, administered by the Calcutta University, remained the same, Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

18. National Institute of Sciences of India.

The Society's representatives to serve on the Council of the National Institute of Sciences of India are Lt.-Col. R. N. Chopra and Mr. C. C. Calder.

19. Deputations.

The Society received invitation to send representative to various functions of the undermentioned body :—

19th International Congress of Orientalists at Rome.

The Council invited Dr. S. K. Chatterji to represent the Society.

20. Honours.

Amongst the Honours conferred during the year several were bestowed on members of the Society. The Society's President (Dr. L. L. Fermor), The Hon'ble Mr. Justice M. N. Mukherjee, Maharaja P. C. Bhanj Deo of Mayurbhanj, Mr. A. H. Ghuznavi, and Mr. W. M. Craddock received the honour of Knighthood, whilst Lt.-Col. R. Knowles was made a C.I.E

21. Congratulations.

Congratulations were sent to several of the above recipients of Civic Honours.

22. Visits.

An appreciable number of distinguished visitors came to the Society during the year. Amongst them were scholars from China, England, Switzerland, and Germany.

Members of the Inter-University Board visited the Society in February.

23. Social Functions.

No social functions were held by the Society during the year.

The President generously enabled the Society to maintain the traditional practice of providing, before the Ordinary Monthly Meetings, light refreshments to the Members and visitors present.

24. Elliott Prize for Scientific Research.

The annual prizes for 1933 and 1934 for research in Chemistry and Physics, respectively, were, in the Annual Meeting of 1935, awarded to Prof. Nirmal Kumar Sen and Dr. D. P. Roy Chowdhury, respectively.

The prize offered for the year 1935 was for Geology and Biology (including Pathology and Physiology). The announcement regarding the prize will be made in the Annual Meeting of 1936.

The prize for next year, 1936, will be for research in Mathematics.

25. Barclay Memorial Medal.

The (biennial) award of the Barclay Memorial Medal for conspicuous contributions to Medical and Biological Science with reference to India, for 1935, will be announced in the Annual Meeting of 1936.

The next award will be announced in the Annual Meeting in February, 1938.

26. Sir William Jones Memorial Medal.

The (biennial) award of the Sir William Jones Memorial Medal for conspicuous researches in Science was announced in the Annual Meeting of 1935. The medal was bestowed on Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

During the year the Council accepted Sir U. N. Brahmachari's suggestion and changed the period of the award into a triennial one. The next (triennial) award will be announced in the Annual Meeting of 1938.

27. Annandale Memorial Medal.

The next (triennial) award, for important contributions to the study of Anthropology in Asia, will be announced in the Annual Meeting of 1937.

28. Joy Gobind Law Memorial Medal.

The next (triennial) award of the Joy Gobind Law Memorial Medal for 1935, for conspicuously important work on Zoology in Asia, will be announced in the Annual Meeting of 1936.

29. Paul Johannes Brühl Memorial Medal.

The (triennial) award of the Paul Johannes Brühl Memorial Medal for important contributions to the study of Asiatic Botany was announced in the Annual Meeting of 1935. The medal was bestowed on Mr. I. H. Burkill.

The next (triennial) award will be announced in the Annual Meeting of 1938.

30. Calcutta Indian Science Congress Prize.

The first award of the prize was announced in the Annual Meeting of 1935 and the award was made to Dr. Meghnad Saha with special reference to his work for the Indian Science Congress.

The next award will be made in connection with the next session of the Congress to be held in Calcutta.

31. Pramatha Nath Bose Memorial Medal.

During the year Sir B. L. Mitter, on behalf of the 'Pramatha Nath Bose Memorial Committee', donated a sum of Rs. 1,800 invested in 3½% Government Paper for the institution of a Pramatha Nath Bose Memorial Medal for conspicuously important contributions to practical or theoretical geology with special reference to Asia, to commemorate the life-work of Mr. Bose, who was a member of the Society for 32 years and a pioneer of geological science and practice in India.

It was decided to gratefully accept the donation. The award is to be triennial. Regulations for the award have been framed and passed by Council.

32. Society's Premises and Property.

A sum of Rs. 2,000 was set aside during the year to be credited to the Building Repairs Fund.

During the year some petty repairs to the Society's building were effected. It is contemplated to undertake thorough repairs during the present year.

The various desiderata and problems existing under the heading Premises and Property have been mentioned in the

Annual Reports of the last few years and have to be kept in mind until realization.

33. Accommodation.

Old problems to be carried over as still needing attention are : the provision of a set of small work-rooms for various uses, and the shelving of the stock-rooms.

During the year a room on the ground floor was vacated and placed at the disposal of the National Institute of Sciences of India for its office.

The available shelving in the Islamic MSS. and printed works room has been completely filled and needs extension. The space available for extension is limited.

34. Artistic and Historical Possessions.

Sir B. L. Mitter presented to the Society a portrait of late Mr. Pramatha Nath Bose. This striking work of art has been gratefully accepted by the Society and has been hung in the Society's main hall.

35. Presentations, Donations, and Legacies.

Except for the presentations to be mentioned under the next heading the Society received a donation from Sir B. L. Mitter for the institution of a medal in memory of the late Mr. Pramatha Nath Bose.

36. Library.

Permanent Library Endowment Fund.—The fund received no further donations during the year. The accumulated interests permitted the purchase of one further paper of Rs. 1,000 (face value, $3\frac{1}{2}$ per cent.) during the year. The total invested capital (face value) increased thereby to Rs. 14,000 and has to accumulate to a total of Rs. 30,000 before income will be available for expenditure.

Accessions.—The accessions to the library during the year, exclusive of about 200 periodicals received through exchange or otherwise, numbered 212 volumes, out of which 71 were purchased and 141 were acquired by presentation.

Binding.—During the year 498 units, including books, pamphlets, and periodicals, were bound at a cost of Rs. 625, out of a total budget allowance of Rs. 650 sanctioned for the purpose.

Purchases.—The allocation for the purchase of books for the year was Rs. 2,000, but actually an amount of Rs. 1,924

was spent. A special grant of Rs. 500 was made for the purchase of early Manuscript Drawings of Indian Fish and other animals. For the new year the grant has been fixed at Rs. 2,500.

Shelving.—A new block of wall-shelves was installed during the year to keep the most important works of reference more easily accessible. Installation of special steel shelving for manuscripts and books in the western section remains to be effected, and provision has also to be made for further steel shelving for the current accessions of periodical literature. Our available shelving space for printed books is also rapidly coming to an end.

Presentations.—The Consul General for Germany very graciously presented the Society with a set of *Die Grosse Politik der Europäischen Kabinette, 1871–1914, Herausgegeben von J. Lepsius, A. M. Bartholdy, F. Thimme, 54 Volumes.* These volumes now form a part of our library.

37. Finance.

(1) Appendix III contains the usual statements showing our accounts for 1935. No change has been made in the form of their presentation since the previous year.

(2) Two new statements occur in this year :—

- (1) Pramatha Nath Bose Memorial Fund Account, and
- (2) Fixed Deposit Account, Imperial Bank of India, Calcutta.

(3) One statement, still carried over for final adjustment, is :—

Statement No. 17. International Catalogue of Scientific Literature, London.

(4) The other statements are presented as in the previous year.

(5) The fund accounts again show their invested assets written down to the market values as at the end of the year, and Investment Account No. 25 shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown in it.

(6) Statement No. 27 shows the Balance Sheet of the Society and the different funds administered by and through it.

(7) The funds belonging to, or administered by, the Society may be classified as follows :—

(a) General Fund.

- (i) Permanent Reserve.
- (ii) Working Balance.

- (b) Specific Funds belonging to the Society.
- (c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1934, was as follows :—

	Face Value.	Market Value.	Face Value.	Market Value.
	31st Dec., 1934.	31st Dec., 1934.	31st Dec., 1935.	31st Dec., 1935.
	Rs.	Rs.	Rs.	Rs.
1. General Fund ..	2,99,100	2,93,300	2,88,600	2,75,400
(a) Permanent Reserve	2,51,100	2,46,700	2,52,000	2,40,900
(b) Working Balance ..	48,100	46,600	36,600	34,500
2. Specific Funds belonging to the Society ..	46,600	45,400	59,000	58,500
3. Funds administered by the Society ..	29,500	28,800	39,500	38,500
	<u>3,75,200</u>	<u>3,67,500</u>	<u>3,87,100</u>	<u>3,72,400</u>

(8) During the year Rs. 864 were received through admission fees. As no ordinary member compounded as a life member and no Institutional Member joined during the year, the above amount as well as a sum of Rs. 61-11 cash balance which was brought forward from 1934, under this head aggregating to Rs. 925-11 was transferred to the Permanent Reserve in the usual manner by conversion at the market rates as on 31st December, 1935, of Government 3½% Paper to the Face Value of Rs. 1,000 belonging to the Temporary Reserve of the working balance, whilst a cash advance of Rs. 30-9 is being carried over to the ensuing year, for adjustment under this head.

(9) The Government of Bengal maintained the 20 per cent. cut in all grants made by them to the Society during the year.

The Society received the following grants from the above Government :—

For	Rs.	Statement.
Journals	1,600	1
O.P. Fund No. 1	7,200	2
Sanskrit MSS. Fund	2,800	4
Do.	2,560	4
	<u>14,160</u>	

(10) The Government of Bengal annual grant of Rs. 3,000 in aid of the publication of the Arabic and Persian works of historical interest expired during the year. Government sanction is awaited for the renewal of the grant and it is hoped that same will be received and realized early in the new year.

(11) The income derived from advertising during the year amounted to Rs. 9,600.

(12) The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 22, 23, and 24.

(13) Statement No. 20 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications, and contingent charges.

(14) The Government Securities shown in Statement No. 25 are held in safe custody by the Imperial Bank, Park Street Branch. During the year, there was a slight depreciation of the Securities amounting to Rs. 4,074 affecting to that extent the book assets of the Society.

To simplify the accounts, the various investment units in the smaller Fund Accounts were converted into units of one and the same Government loan of the same denomination and amalgamated into single papers for each Fund.

(15) Municipal assessment. For the fourth time in succession the Corporation has enhanced the Assessment on the Society's premises. This time the increase has been so great as to cause serious apprehension. The matter has been placed in the hands of a professional firm of Income Tax Agents to protect the interests of the Society.

(16) The budget estimates for 1935 and the actuals for the year were as follows :—

Estimates.			Receipts.	Expenditure.
			Rs.	Rs.
Ordinary ..	..	..	53,700	53,700
Extraordinary ..	..	..	1,000	1,000
TOTAL			54,700	54,700
Actuals.				
Ordinary ..	..	..	56,011	53,529
Extraordinary ..	..	..	864	864
TOTAL			56,875	54,393

The ordinary income was about Rs. 2,311 more than estimated.

On the expenditure side also about Rs. 171 was expended less than the estimate.

(17) The year's working shows a decrease in the net balance to the extent of Rs. 1,313 as compared to that of last year, taking into account the depreciation of our investments which amounted to Rs. 4,074.

(18) The budget estimates for probable expenditure have as usual been framed to meet demands under various heads based on vigorous activity in all departments of the Society's work.

The receipts have been conservatively estimated.

BUDGET ESTIMATES FOR 1936.

Ordinary Receipts.

	1935 Estimate.	1935 Actuals.	Budget Estimates for 1936.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits {	10,000	10,013	10,000
	800	1,100	700
Advertising	9,600	9,600	9,600
Annual Grant	1,600	1,600	1,600
Donation .. .. .	..	150	..
Miscellaneous	300	374	300
Members' Subscriptions	9,500	10,414	10,000
Publications, Sales, and Subscriptions	5,000	5,460	5,000
Proportionate Share of Funds ..	7,000	7,000	7,000
Indian Science Congress Contribution	600	1,000	1,000
Rent	9,300	9,300	9,300
	<hr/>	<hr/>	<hr/>
TOTAL ..	53,700	56,011	54,500
	<hr/>	<hr/>	<hr/>

Ordinary Expenditure.

	Rs.	Rs.	Rs.
Salaries and Allowances	30,000	31,856	31,500
Commission	300	309	350
Stationery	500	389	500
Fan, Light, and Telephone ..	800	768	800
Taxes	2,250	2,244	2,250
Postage	1,400	1,349	1,500
Freight	100	..	..
Contingencies	900	720	800
Petty Repairs	100	72	100
Insurance	500	500	500
Menials' Clothing	100	97	200
Office Furniture	450	447	450
Building Repairs	2,000	2,000	2,000
Provident Fund Share	700	686	700
Audit Fee	250	250	250
Books, Library	2,000	1,924	2,500
„ (Special Grant) .. .. .	..	482	..
Binding, Library	650	624	600
Journal and Memoirs	9,900	7,868	6,000
Printing, Circular	800	694	800
Donations .. .. .	..	200	..
Gratuity .. .. .	..	50	..
Permanent Reserve .. .. .	..	..	1,500
Replacement of Fans .. .. .	..	..	1,200
	<hr/>	<hr/>	<hr/>
TOTAL ..	53,700	53,529	54,500

Extraordinary Receipts.

	1935 Estimate.	1935 Actuals.	Budget Estimates for 1936.
By Fees	Rs.	Rs.	Rs.
by Admission Fees	650	864	650
by Compounding Fees	300	..	300
by Institutional Membership Registration Fees	50	..	50
TOTAL ..	1,000	864	1,000

Extraordinary Expenditure.

To Permanent Reserve	Rs.	Rs.	Rs.
by Admission Fees	650	864	650
by Compounding Fees	300	..	300
by Institutional Membership Registration Fees	50	..	50
TOTAL ..	1,000	864	1,000

38. Publications.

Journal.—Of the *Journal and Proceedings*, Volume XXX, for 1934, one number consisting of 108 pages and 34 plates was issued to close the volume. The title-pages and index for this volume were also published.

Of the *Journal*, Volume I, for 1935, four numbers consisting of 468 pages and 8 plates were issued.

In all 576 pages and 42 plates were published during the year.

Title of Journal.—During the year it was decided to begin a Third Series of the *Journal*. The *Journal* is henceforth to be published in three parts: *Journal*, *Letters*; *Journal*, *Science*; and *Year-Book*. The *Year-Book* will contain the material hitherto published in the *Proceedings* but in an expanded form. For those who wish to bind the parts separately title-pages for the separate parts will be provided. There will also be title-pages for the complete volume of the three parts together.

Memoirs.—Of the *Memoirs* two numbers were published, aggregating 116 pages and 7 plates.

These two numbers constitute the seventh and eighth parts of Col. Sewell's series on Geographic and Oceanographic Research in Indian Waters.

Indian Science Congress.—The *Proceedings* of the 22nd Indian Science Congress, consisting of 632 pages and one table, were published during the year.

Sales.—A sum of Rs. 5,410 was realized, being Rs. 410 above the budget estimate.

Expenditure.—The expenditure on *Journal* and *Memoirs* was about Rs. 7,868.

Advance Proceedings.—Seven numbers were published during the year.

Year-Book.—The *Year-Book* for 1934 was completed in print and will be issued early in the present year.

39. The Baptist Mission Press.

Under the capable superintendence of Mr. P. Knight the Baptist Mission Press continued to act as our chief printers and again gave invaluable assistance and maintained closest co-operation.

40. Agencies.

Our European and Indian Agents remained the same throughout the year. An extension of the list for Asiatic countries is desirable.

41. Exchange of Publications.

During the year, the following applications for exchange with the Society's publications were considered by the Council, with the decisions as noted against them :—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Lingnan University, Canton, China ..	<i>Journal.</i>
Book for Exchange Dept., U.S.S.R. Society for cultural relations with foreign countries, Moscow.	<i>Journal.</i>
Institut für Völkerkunde der Universität, Wien ..	<i>Journal.</i>
Government Epigraphist for India ..	<i>Journal (Letters).</i>
Sinensia, China ..	<i>Journal.</i>
Sze Chuan Research Society ..	<i>Journal.</i>

42. Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of January and May and the recess month of October. The recorded average attendance was 19 members and 4 visitors. The maximum attendance was in August with 25 members and 11 visitors.

Two meetings of the Medical Section were held during the year.

43. Exhibits.

In the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned :—

- S. L. Hora : An interesting Implement for Mud-fishing from Uttarbhag, Lower Bengal.
Sir L. L. Fermor : Tubular Panjal Trap from Kashmir, and an Iron Horse from the Central Provinces.
Baini Prashad : Ethnographical Specimens from the Naga Hills.
V. P. Sondhi : A Coffin and a Skull from a lime-stone cave in the Southern Shan States, Burma.
R. Chanda : A photograph of the tomb of 'Hindoo' Stuart (died in Calcutta, in 1828) in the South Park Street Cemetery, and photographs of four sculptures originally belonging to his collection and now exhibited in the British Museum.
Percy Brown : Portrait of a Lady of the Elizabethan Period, and a miniature painting of a Mughal Prince.
A. L. Coulson : The Perpeti meteorite ; additional stones from the Perpeti meteorite shower ; the Patwar meteorite.
A. M. Heron : An artificial natural Freak from China.
J. van Manen : A Babylonian clay Tablet with cuneiform inscriptions ; and some Tibetan Tankas.
W. D. West : Cinematograph film of Quetta after the earthquake.

44. Communications.

Apart from papers submitted both for reading and subsequent publication, a number of communications, not intended for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications made during the year the following may be mentioned :—

Johan van Manen : Recent Advances in the study of Chinese Philosophy ; the word ch'ang in the Tao Te king.

45. General Lectures.

During the year no General Lectures were given.

46. Philology.

Four papers were read during the year to be published later.
Three papers read in the previous years were published during the year.

One paper was read and also published during the year.

47. Natural History : Biology.

One paper read in the previous year was published during the year.

One new paper was read and published during the year.

One paper was read during the year to be published later.

48. Natural History : Physical Science.

One paper read in the previous year was published during the year.

49. Anthropology.

One paper read in the previous year was published during the year.

Six papers were read during the year to be published later.

50. Medical Section.

During the year two meetings of the Medical Section were held, as detailed below :—

November. Speaker : S. L. Hora.

Subject : Recent Indian cases of live Fishes impacted in the food and air passages of men.

Speaker : B. G. Mallaya.

Subject : Surgical aspect of live Fishes impacted in the human food and air passages.

December. Speakers : Lt.-Col. R. N. Chopra and A. C. Roy.

Subject : Some biochemical characteristics of snake venom.

The recorded attendance averaged 6 members and 8 visitors.

51. Bibliotheca Indica.

Works published.—Actually published were four issues, Nos. 1520, 1521, 1523, and 1525, of an aggregate bulk of 11 fascicle units of 96 or 100 pages. The details are given in Appendix II to this report.

Of the above issues one constituted a complete work, namely :—

1. Maitri Upanisad, text and translation (Second and revised edition).

A separate reprint of the translation alone was also issued.

Indian works continued.—The following works were continued during the year :—

1. Manusmṛti, with the commentary of Medhatithi, Sanskrit.
2. Vaikhānasaśrautasūtram, text, Sanskrit
3. Saundarānandakāvya, text, Sanskrit (Second and revised edition).
4. Ātmatattvaviveka, text, Sanskrit.

Islamic works continued.—In the Islamic Series work was continued on two works, namely :—

1. 'Amal-i-Šālih, Persian.
2. Rubā'iyāt of Umar-i-Khayyām, Persian.

52. Catalogue of Sanskrit Manuscripts.

Work on Volume VIII, on Tantra, advanced well. By the end of the year 240 pages were printed off, about 80 pages were in type, and a large instalment of the copy was made press-ready.

53. Arabic and Persian Manuscripts, Search and Catalogue.

The work in this department was steadily pursued.

Binding.—The binding and repairing of previously and newly acquired MSS. was continued and 50 MS. volumes were bound during the year, making a total of 1,108 MSS. bound and repaired since the end of 1924.

Acquisitions.—During the year twenty-nine manuscripts were acquired by purchase. A total amount of Rs. 167 was spent on these new acquisitions.

Reference books.—The collection of Persian and Arabic MSS. catalogues was again added to and its completion continues an object of attention. A number of biographical works of reference were also purchased during the year.

Catalogue.—The work on the Arabic Catalogue was very satisfactory and up to 432 pages were print-ordered during the year.

54. Numismatics.

One Numismatic Supplement (for 1934) was published during the year, aggregating 108 printed pages and 34 plates.

55. Royal Title.

Giving effect to a decision arrived at the year before, a formal application was made through H.E. the Viceroy for the privilege of being permitted to prefix the title 'Royal' before the Society's name.

[APPENDIX I.]

Membership Statistics.

(As calculated for December 31st, for 30 years.)

YEAR.	ORDINARY.							EXTRA-ORDINARY.					Grand Total Membership.	FELLOWS		
	PAYING.				NON-PAYING.			Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.		Total.	Honorary.	Ordinary.
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.									
1906 ..	173	147	15	335	52	20	72	407	4	12	..	..	16	423	30	..
1907 ..	174	175	20	369	31	20	51	420	4	12	..	..	16	436	28	..
1908 ..	181	193	17	391	38	19	57	448	4	13	..	..	17	465	30	..
1909 ..	183	217	13	413	40	20	60	473	4	14	..	..	18	491	28	..
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	28
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	426	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49
1934 ..	217	112	30	359	26	57	83	442	..	6	7	12	25	467	26	47
1935 ..	206	107	28	341	28	56	84	425	..	5	7	11	23	448	24	44

[APPENDIX II.]

List of Publications issued by the Asiatic Society of Bengal during 1935.**(a) Bibliotheca Indica :**

	Price		
	Rs.	A.	P.
(1) Maitrī Upanisad, English translation (1 unit) ..	1	0	0
(2) Maitrī Upanisad, text and translation. Fasc. 3 (2 units) ..	2	0	0
(3) Ṭabaqāt-i-Akbarī, Persian text. Vol. 3 : complete (6 units) ..	6	0	0
(4) Kaṣṣf Al-Hujub wal Astār 'An Asmā' Al-Kutub wal Asfār, text (2 units) ..	2	0	0

(b) Journal and Proceedings (New Series) :

Vol. XXX : No. 3 (39 units) ..	14	10	0
Vol. I (Letters) : No. 1 (12 units) ..	4	8	0
Vol. I (Letters) : No. 2 (18 „) ..	6	12	0
Vol. I (Science) : No. 1 (6 „) ..	2	4	0
Vol. I (Science) : No. 2 (2 „) ..	0	12	0

Title-pages and Index for Vol. XXX. (Free to Members and Subscribers on application.)

(c) Advance Proceedings :

Vol. II : Nos. 1-7. (Free to Members.)

(d) Memoirs :

Vol. IX : No. 7 (5 units) ..	2	13	0
Vol. IX : No. 8 (10 „) ..	5	10	0

(e) Miscellaneous :

Proceedings, Twenty-second Indian Science Congress 15 0 0

Abstract Statement
of
Receipts and Disbursements
of the
Asiatic Society of Bengal
for
the Year 1935

STATEMENT No. 1.

1935.

General

Income and Expenditure Account

			Rs.	As.	P.	Rs.	As.	P.
To ESTABLISHMENT.								
Salaries and Allowances	..	..	31,906	12	6			
Commission	..	..	308	10	9			
						32,215	7	3
GENERAL EXPENDITURE.								
Stationery	..	..	388	15	0			
Fans and Light	..	..	462	15	0			
Telephone	..	..	305	5	2			
Taxes	..	..	2,244	7	0			
Postage	..	..	1,349	5	0			
Contingencies	..	..	766	11	7			
Printing Circulars, etc.	..	..	693	14	0			
Audit Fee	..	..	250	0	0			
Petty Repairs	..	..	72	13	6			
Insurance	..	..	500	0	0			
Menials' Clothing	..	..	96	6	0			
Donations	..	..	200	0	0			
Furniture	..	..	447	0	0			
						7,777	12	3
LIBRARY AND COLLECTIONS.								
Books	..	..	2,405	13	10			
Binding	..	..	624	8	0			
						3,030	5	10
PUBLICATIONS.								
Journal and Proceedings and Memoirs			....			7,867	11	6
CONTRIBUTION TO FUNDS.								
Provident Fund Contribution for 1935			....			685	2	0
						51,576	6	10
TRANSFER TO—								
Building Repair Fund Account	..		....			2,000	0	0
SUNDRY ADJUSTMENTS.								
Depreciation of Investments re-valued on 31-12-35	..	..	....			4,077	2	0
Bad Debts written-off	..	..	....			943	0	0
BALANCE AS PER BALANCE SHEET	..		....			2,75,327	13	5
						3,33,924	6	3

STATEMENT No. 1.

Fund.

1935.

for the year to 31st December, 1935.

	Rs.	As.	P.	Rs.	As.	P.
By BALANCE FROM LAST ACCOUNT			2,76,691	3	0

CASH RECEIPTS.

Interest on Investments ..	10,013	6	0			
Interest on Fixed Deposits ..	1,099	14	6			
Advertising ..	9,600	0	0			
Miscellaneous ..	374	3	10			
Government grant ..	1,600	0	0			
Rent ..	9,300	0	0			
Contributions from Indian Science Congress ..	1,000	0	0			
Donations ..	150	0	0			
				33,137	8	4

PERSONAL ACCOUNT.

Members' Subscriptions ..	10,621	0	0			
Admission Fees ..	864	0	0			
Miscellaneous ..	200	10	9			
				11,685	10	9

TRANSFERS FROM FUNDS.

Proportionate Share in General Expenditure—						
O.P. Fund (1) Account ..	2,500	0	0			
Sanskrit MSS. Fund Account ..	2,000	0	0			
Arabic and Persian MSS. Fund Account ..	2,500	0	0			
				7,000	0	0
Publication Fund Account ..	....			5,410	0	2

3,33,924 6 3

STATEMENT No. 2.

1935.

Oriental Publication

From a monthly grant made by the Government of Bengal for the publi-
(Rs. 500), and for the publication of Sanskrit
(Less 20% from the

	Rs.	As.	P.	Rs.	As.	P.
To Printing			3,242	0	0
Proportionate Share in General Expenditure			2,500	0	0
Balance as per Balance Sheet			1,583	1	11
				<hr/>		
				7,325	1	11

STATEMENT No. 3.

1935.

Oriental Publication

From an annual grant made by the Government of Bengal of
Historical
(Less 20% from the

	Rs.	As.	P.
To Balance from last Account	500	6	4
Printing	3,222	4	3
	<hr/>		
	3,722	10	7

STATEMENT No. 4.

1935.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal
by the Society; and Rs. 3,600 from the
(Less 20% from the

	Rs.	As.	P.	Rs.	As.	P.
To Pension	120	0	0			
Cataloguing	2,400	0	0			
Printing	1,151	0	0			
Purchase of MSS.	20	0	0			
	<hr/>			3,691	0	0
Proportionate Share in General Expenditure .. ..	....			2,000	0	0
Balance as per Balance Sheet ..	....			16,443	1	3
				<hr/>		
				22,134	1	3

STATEMENT No. 2.

Fund, No. 1, in Account with A.S.B.

1935.

ation of Oriental Works and Works of Instruction in Eastern Languages
 Works hitherto unpublished (Rs. 250).
 1st of April, 1932.)

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			125	1	11
Annual Grant			7,200	0	0
					7,325	1	11

STATEMENT No. 3.

Fund, No. 2, in Account with A.S.B.

1935.

Rs. 3,000 for the publication of Arabic and Persian Works of
 Interest.
 1st of April, 1932.)

			Rs.	As.	P.
By Balance as per Balance Sheet	..	..	3,722	10	7
			3,722	10	7

STATEMENT No. 4.

Account, in Account with A.S.B.

1935.

for the publication of the Catalogue of Sanskrit Manuscripts acquired
 same Government for Research Work.
 1st of April, 1932.)

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....			16,694	1	3
Annual Grant for Research Work,							
1935-36	..	2,880	0	0			
Annual Grant for Cataloguing	..	2,560	0	0			
					5,440	0	0
					22,134	1	3

STATEMENT No. 5.

1935.

Arabic and Persian Manuscripts

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society ; for the purchase of further Manuscripts,
Manuscripts found in

	Rs.	As.	P.	Rs.	As.	P.
To Manuscripts Purchase	433	4	0			
Binding	134	8	0			
Cataloguing	2,400	0	0			
				2,967	12	0
Proportionate Share in General Ex- penditure .. ..	....			2,500	0	0
Balance as per Balance Sheet .. ..	....			4,068	13	0
				9,536	9	0

STATEMENT No. 6.

1935.

Barclay Memorial

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-35 .. ..	....			10	8	0
Balance as per Balance Sheet— Rs. 700, 3½% G.P.N., 1854-55 ..	669	6	0			
Surplus at date	10	5	8			
				679	11	8
				690	3	8

STATEMENT No. 7.

1935.

Servants' Pension Fund

Founded in 1876 as the Piddington Pension Fund

	Rs.	As.	P.	Rs.	As.	P.
To Purchase of Investments during the year .. ..	....			195	5	5
Depreciation, Investment revalued on 31-12-35 .. ..	....			46	1	5
Balance as per Balance Sheet— Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,868	12	0			
Surplus at date	20	1	6			
				2,888	13	6
				3,130	4	4

STATEMENT No. 5.

Fund Account, in Account with A.S.B.

1935.

the cataloguing and binding of Arabic and Persian Manuscripts, acquired and for the preparation of notices of Arabic and Persian various Libraries in India.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	4,536 9 0
Government grant for 1935-36	5,000 0 0
			9,536 9 0

STATEMENT No. 6.

Fund Account, in Account with A.S.B.

1935.

General, I.M.S., for the foundation of a medal for the and Biological Science.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	658 1 10
Interest realized for the year	32 1 10
			690 3 8

STATEMENT No. 7.

Account, in Account with A.S.B.

1935.

with Rs. 500 odd from the Piddington Fund.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	2,838 13 9
Interest realized for the year	96 1 2
Investment Account, credited at cost	195 5 5

 3,130 4 4

STATEMENT No. 8.
1935.

Annandale Memorial Fund
From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-35 .. .. .			....	60	0	0
Balance as per Balance Sheet—						
Rs. 4,000, 3½% G.P.N., 1854-55 ..	3,825	0	0			
Surplus at date	351	5	9			
			-----	4,176	5	9
				-----	-----	-----
				4,236	5	9

STATEMENT No. 9.
1935.

Permanent Library Endowment
From gifts received,

	Rs.	As.	P.	Rs.	As.	P.
To Purchase of Investments .. .. .			....	976	11	1
Depreciation, Investments revalued on 31-12-35 .. .. .			.. .	215	7	1
Balance as per Balance Sheet—						
Rs. 14,000, 3½% G.P.N., 1854-55..	13,387	8	0			
Surplus at date	211	5	8			
			-----	13,598	13	8
				14,790	15	10

STATEMENT No. 10.
1935.

Sir William Jones Memorial
From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. .. .			....	289	14	0
Depreciation, Investments revalued on 31-12-35 .. .. .			....	45	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,868	12	0			
Surplus at date	16	3	0			
			-----	2,884	15	0
				3,219	13	0

STATEMENT No. 11.
1935.

Pramathanath Bose Memorial
From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 800, 3½% G.P.N., 1842-43 }	1,721	4	0
„ 1,000, „ „ 1865 }						
				-----	-----	-----
				1,721	4	0

STATEMENT No. 8.

Account, in Account with A.S.B.
started in 1926.

1935

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			4,102	6	7
Interest realized for the year			133	15	2
					4,236	5	9

STATEMENT No. 9.

Fund Account, in Account with A.S.B.
started in 1926.

1935.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			13,352	11	3
Interest realized for the year			461	9	6
Investment Account, credited at Cost			976	11	1
					14,790	15	10

STATEMENT No. 10.

Fund Account, in Account with A.S.B.
1926, by Dr. U. N. Brahmachari.

1935.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,115	5	0
Interest realized for the year			104	8	0
					3,21	13	0

STATEMENT No. 11.

Fund Account, in Account with A.S.B.
1935.

1935.

		Rs.	As.	P.	Rs.	As.	P.
By Investment Account. Amount received from Sir B. L. Mitter as Donation, 3½% G.P. Notes, per contra				1,721	4	0
					1,721	4	0

STATEMENT No. 12.

1935.

Joy Gobind Law Memorial

From a donation for the purpose in 1929,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-35				45	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,868	12	0			
Surplus at date	264	7	0			
				3,133	3	0
				3,178	3	0

STATEMENT No. 13.

1935.

Building Fund

From a sum of Rs. 40,000 given by the Government of India proceeds of a portion

	Rs.	As.	P.
To Balance as per Balance Sheet	6,321	9	6
	6,321	9	6

STATEMENT No. 14.

1935.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-35				45	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P.N., 1854-55 ..	2,868	12	0			
Surplus at date	672	3	7			
				3,540	15	7
				3,585	15	7

STATEMENT No. 15.

1935.

Dr. Brühl Memorial Fund

From a sum gifted for the purpose in 1929, by

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal				9	6	0
Depreciation, Investments revalued on 31-12-35				15	0	0
Balance as per Balance Sheet—						
Rs. 1,000, 3½% G.P.N., 1854-55 ..	956	4	0			
Less Deficit at date	10	1	0			
				946	3	0
				970	9	0

STATEMENT No. 12.

Fund Account, in Account with A.S.B.

1935.

by Dr. Satya Churn Law.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,073	15	0
Interest realized for the year			104	4	0
					3,178	3	0

STATEMENT No. 13.

Account, in Account with A.S.B.

1935.

towards the rebuilding of the Society's premises, and from the sale of the Society's land.

			Rs.	As.	P.
By Balance from last Account	..	..	6,321	9	6
			6,321	9	6

STATEMENT No. 14.

Fund Account, in Account with A.S.B.

1935.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....	3,481	11	7			
Interest realized for the year	..	....	104	4	0			
						3,585	15	7

STATEMENT No. 15.

Account, in Account with A.S.B.

1935.

the Brühl Farewell Committee.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....	935	13	0			
Interest realized for the year	..	....	34	12	0			

970 9 0

STATEMENT No. 16.

1935

Building Repair

			Rs.	As.	P.
To Building Repairs	..	..	132	0	0
To Balance as per Balance Sheet	..	..	7,868	0	0
			8,000	0	0

STATEMENT No. 17.

1935.

International Catalogue of Scien-

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	4,374	7	8
			4,374	7	8

STATEMENT No. 18.

1935.

Provident Fund Ac-

From contributions by the

			Rs.	As.	P.	Rs.	As.	P.
To Amount paid during the year	..	....				291	2	10
Balance as per Balance Sheet—								
Rs. 5,000, 3% G.P.N., 1941	..		5,190	10	0			
„ 6,000, 5-years Postal Cash Cer-	..		5,287	8	0			
tificates	..		5,185	11	6			
Savings Bank and Advances	..					15,663	13	6
						15,955	0	4

STATEMENT No. 19.

1935.

Advances

			Rs.	As.	P.
To Balance from last Account	..	..	1,605	0	0
Payments during the year	..	..	275	0	0
			1,880	0	0

STATEMENT No. 16.

Fund Account, in Account with A.S.B.

1935.

			Rs.	As.	P.
By Balance from last Account	..	..	6,000	0	0
Transfer from A.S.B. General Fund	..	..	2,000	0	0
			8,000	0	0

STATEMENT No. 17.

tific Literature, in Account with A.S.B.

1935.

			Rs.	As.	P.
By Balance from last Account	..	..	4,374	7	8
			4,374	7	8

STATEMENT No. 18.

count, in Account with A.S.B.

1935.

Society and its Staff.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	..	....			14,057	3	10
Staff Contribution for the year	..	..	701	1	0			
Society's Contribution for the year	..	..	685	2	0			
Interest realized during the year	..	..	139	10	6			
						1,525	13	6
Interest realized from Savings Bank, etc.	..	..	53	3	0			
Appreciation, Investments revalued on 31-12-35	..	..	318	12	0			
						371	15	0
						15,955	0	4

STATEMENT No. 19.

Account, in Account with A.S.B.

1935.

			Rs.	As.	P.
By Refunds during the year	..	..	745	0	0
Balance as per Balance Sheet	..	..	1,135	0	0
			1,880	0	0

STATEMENT No. 20.

1935.

Personal

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			4,971	1	3
Advances .. ..	....			2,762	8	0
Asiatic Society's Subscriptions, etc...	11,685	10	9			
Subscriptions to Journal and Pro- ceedings, and from Book Sales, etc.	5,410	0	2			
				17,095	10	11

24,829 4 2

STATEMENT No. 21.

1935.

Publication Fund

From sale proceeds

	Rs.	As.	P.	Rs.	As.	P.
To Books returned, etc.			150	8	0
Publications of the A.S.B.			5,410	0	2
Balance as per Balance Sheet			7,236	7	0

12,796 15 2

STATEMENT No. 20.

Account.

1935.

	Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts during the year ..	....			20,809	10	5
Bad Debts written-off, A.S.B. ..	943	0	0			
Books returned, etc. ..	150	8	0			
				1,093	8	0
Balance as per Balance Sheet ..	....			3,126	1	9

Outstandings.	Amount due to Society.			Amount due by Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members	8,078	15	0	459	18	0
Subscribers	1	0	0	24	0	0
Bill Collector's						
Deposit				330	0	0
Miscellaneous	1,263	1	9	433	2	0
	4,373	0	9	1,246	15	0

24,829 4 2

STATEMENT No. 21.

Account, in Account with A.S.B.

1935.

of publications.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account ..	....			7,197	15	9
Cash Sales of Publications ..	....			188	15	3
Credit Sales of Publications, etc. ..	3,946	0	2			
Subscriptions to Journal and Proceed- ings, etc. ..	1,464	0	0			
				5,410	0	2
				12,796	15	2

STATEMENT No. 22.

1935.

(1) Deposit Account

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..				2,291	13	10
Deposit of Contributions during the year	1,386	3	0			
Deposit of Advances returned ..	746	0	0			
Deposit of Interest realized during the year	140	4	6			
	<hr/>			2,272	7	6
Interest realized for the year 1935 ..				53	3	0
				4,617	8	4

STATEMENT No. 23.

1935.

(2) Deposit Account

			Rs.	As.	P.
To Balance from last Account ..	..		30,000	0	0
Deposit during the year ..	..		45,100	0	0
			<hr/>		
			75,100	0	0

STATEMENT No. 24.

1935

(3) Deposit Account

			Rs.	As.	P.
To Deposit during the year ..	..		15,000	0	0
			<hr/>		
			15,000	0	0

STATEMENT No. 22.*(Savings Bank Deposit with Imperial Bank of India).* 1935.

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal for Staff Advances, etc.			566	2	10
Balance as per Balance Sheet			4,051	5	8

 4,617 8 4

STATEMENT No. 23.*(Fixed Deposit with Central Bank of India).* 1935.

			Rs.	As.	P.
By Withdrawals during the year ..	..		50,100	0	0
Balance as per Balance Sheet ..	..		25,000	0	0
			75,100	0	0

STATEMENT No. 24.*(Fixed Deposit with Imperial Bank of India).* 1935.

			Rs.	As.	P.
By Balance as per Balance Sheet ..	..		15,000	0	0
			15,000	0	0

STATEMENT No. 25.

1935.

(4) Investment

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	...	...	...	3,17,399	4	0
Purchases during the year:						
Servants' Pension Fund ..	195	5	5			
Permanent Library Endowment Fund	976	11	1	1,172	0	6
Pramathanath Bose Memorial Fund ..	....			1,721	4	0
				3,20,292	8	6

Face Value Rs.	FUNDS.	Rate in Rs %	31st December, 1935, Valuation	31st December, 1934, Valuation including purchases during the year.	Depreciation or Appreciation.
			Rs. A. P.	Rs. A. P.	Rs. A. P.
ASIATIC SOCIETY OF BENGAL.					
PERMANENT RESERVE.					
16,700	3½% G.P. Notes, 1842-43	...			
1,58,700	3½% G.P. Notes, 1854-55	...			
44,300	3½% G.P. Notes, 1865 ..	...		
6,000	3½% G.P. Notes, 1879	...			
80,800	3½% G.P. Notes, 1900-01	...			
2,51,500		95 10/-	2,40,496	14 0	
500	3½% G.P. Notes, 1896-97	96 4/-	431	4 0	
TEMPORARY RESERVE					
20,200	3½% G.P. Notes, 1900-01	95 10/-	19,316	4 0	
11,400	4½% Loan, 1955-60	116 10/-	13,285	4 0	
			2,73,530	10 0	2,77,616 12 0
700	3½% G.P. Notes, 1854-55	95 10/-	669	6 0	679 14 0
BARCLAY MEMORIAL FUND.					
3,000	3½% G.P. Notes, 1854-55	95 10/-	2,808	12 0	2,719 8 0
					* 195 5 5
					46 1 5
ANNANDALE MEMORIAL FUND.					
4,000	3½% G.P. Notes, 1854-55	95 10/-	3,825	0 0	3,885 0 0
PERMANENT LIBRARY ENDOWMENT FUND.					
14,000	3½% G.P. Notes, 1854-55	95 10/-	13,387	8 0	12,626 4 0
					* 976 11 1
					215 7 1
SIR WILLIAM JONES MEMORIAL FUND.					
3,000	3½% G.P. Notes, 1854-55	95 10/-	2,868	12 0	2,913 12 0
PRAMATHANATH BOSE MEMORIAL FUND.					
800	3½% G.P. Notes, 1842-43	95 10/-			
1,000	3½% G.P. Notes, 1885	95 10/-	1,721	4 0	1,721 4 0
JOY GOBIND LAW MEMORIAL FUND.					
3,000	3½% G.P. Notes, 1854-55	95 10/-	2,868	12 0	2,913 12 0
CALCUTTA SCIENCE CONGRESS PRIZE FUND.					
3,000	3½% G.P. Notes, 1854-55	95 10/-	2,868	12 0	2,913 12 0
DR BRÜHL MEMORIAL FUND.					
1,000	3½% G.P. Notes, 1854-55	95 10/-	956	4 0	971 4 0
8,17,100	Carried over	...	8,06,574	0 0	8,10,188 2 6

STATEMENT No. 25.

Account

1935.

	Rs.	As.	P.	Rs.	As.	P.
By Depreciation, Investments revalued on						
31st December, 1935		4,240	6	6
Balance as per Balance Sheet		3,16,052	2	0

 3,20,292 8 6

Face Value Rs.	FUNDS.	Rate %	31st December, 1935, Valuation.	31st December, 1934, Valuation including * purchases during the year.	Depreciation or * Appreciation.
		Rs. %	Rs. A. P.	Rs. A. P.	Rs. A. P.
3,17,100	Brought forward ..	....	3,05,574 0 0	3,10,138 2 6	4,559 2 6
	PROVIDENT FUND.				
5,000	3% Loan, 1941 ..	103.13 -	5,190 10 0	5,050 6 0	.. ..
6,000	Post Office 5-year Cash Certificates ..	88.2 -	5,287 8 0	5,100 0 0	* 315 12 0
			10,478 2 0	10,150 6 0	
3,28,100		....	3,16,052 2 0	3,20,292 8 6	4,240 6 6

STATEMENT No. 26.

1935.

Cash

For the year ended 31st

To	Rs. As. P.	Rs. As. P.
Balance from last Account	10,789 8 6	
General Fund Account	33,137 8 4	
Oriental Publication Fund No. 1 Account	7,200 0 0	
Sanskrit Manuscripts Fund Account	5,440 0 0	
Arabic and Persian Manuscripts Fund Account	5,000 0 0	
Barclay Memorial Fund Account	32 1 10	
Servants' Pension Fund Account	96 1 2	
Annandale Memorial Fund Account	133 15 2	
Permanent Library Endowment Fund Account	461 9 6	
Sir William Jones Memorial Fund Account	104 8 0	
Joy Gobind Law Memorial Fund Account	104 4 0	
Calcutta Science Congress Prize Fund Account	104 4 0	
Dr. Brühl Memorial Fund Account	34 12 0	
Provident Fund Account	1,525 13 6	
Advances Account	745 0 0	
Personal Account	20,609 10 5	
Publication Fund Account	188 15 3	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	566 2 10	
Fixed Deposit Account, Central Bank of India, Calcutta	50,100 0 0	
		1,25,584 10 0
		<u>1,36,374 2 6</u>

STATEMENT No. 26.

Account.

1935.

December, 1935.

By	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	51,576	6	10			
Oriental Publication Fund No. 1 Account	3,242	0	0			
Oriental Publication Fund No. 2 Account	3,222	4	3			
Sanskrit Manuscripts Fund Account ..	3,691	0	0			
Arabic and Persian Manuscripts Fund Account	2,967	12	0			
Servants' Pension Fund Account ..	195	5	5			
Permanent Library Endowment Fund Account	976	11	1			
Sir William Jones Memorial Fund Account	289	14	0			
Dr. Bruhl Memorial Fund Account ..	9	6	0			
Building Repair Fund Account ..	132	0	0			
Provident Fund Account	291	2	10			
Advances Account	275	0	0			
Personal Account	2,762	8	0			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta ..	2,272	7	6			
Fixed Deposit Account, Central Bank of India, Calcutta	45,100	0	0			
Fixed Deposit Account, Imperial Bank of India, Calcutta.	15,000	0	0			
				1,32,003	13	11
Balance as per Balance sheet—						
In hand	92	7	3			
With the Imperial Bank of India on Current Account	4,277	13	4			
				4,370	4	7
				1,36,374	2	6

STATEMENT No. 27.

1935.

Balance

As at 31st

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	2,75,327	13	5			
Oriental Publication Fund No. 1 Account ..	1,583	1	11			
Sanskrit Manuscripts Fund Account ..	16,443	1	3			
Arabic and Persian Manuscripts Fund Account	4,068	13	0			
Barclay Memorial Fund Account ..	679	11	8			
Servants' Pension Fund Account ..	2,888	13	6			
Annandale Memorial Fund Account ..	4,176	5	9			
Permanent Library Endowment Fund Account	13,598	13	8			
Sir William Jones Memorial Fund Account ..	2,884	15	0			
Pramathanath Bose Memorial Fund Account	1,721	4	0			
Joy Gobind Law Memorial Fund Account ..	3,133	3	0			
Building Fund Account	6,321	9	6			
Calcutta Science Congress Prize Fund Account	3,540	15	7			
Dr. Brühl Memorial Fund Account ..	946	3	0			
Building Repair Fund Account ..	7,868	0	0			
International Catalogue of Scientific Literature Account	4,374	7	8			
Provident Fund Account	15,663	13	6			
Publication Fund Account	7,236	7	0			
				3,72,457	8	5
				3,72,457	8	5

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and, in our opinion, set forth correctly the position of the Society as at 31st December, 1935

PRICE, WATERHOUSE, PEAT & Co.,

Calcutta.
31st January, 1936

Auditors,
Chartered Accountants,
Registered Accountants.

[APPENDIX IV.]

Abstract Proceedings Council, 1935.

(Rule 48 f.)

ACCOMMODATION—

Office accommodation to the National Institute of Science. The General Secretary to see whether the north front room on the ground floor can be conveniently vacated and placed at the disposal of the Institute. The Secretary and Dr. Hora to decide final arrangement.

No. 5. 28-1-35.

Report use of the Society's Hall for a Council Meeting of the National Institute of Sciences of India. Action approved.

No. 1. 29-4-35.

Request for the use of the Society's hall by the Mining and Geological Institute of India. Action approved.

No. 3. 29-7-35.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant : General Secretary's letter approved.

No. 1. 25-11-35.

ANNUAL MEETING—

Annual Meeting. Arrangements approved.

No. 7. 28-1-35.

Annual report. Approved.

No. 8. 28-1-35.

ASSOCIATE MEMBERS—

Report death of Fr. H. Hosten, S.J. Announce. General Secretary to prepare an obituary notice.

No. 2. 29-4-35.

BUILDING—

Recommendation Finance Committee No. 3(b) of 22-2-35.

Estimates periodical repairs to the building. The General Secretary and Honorary Treasurer to consider and make recommendations to Special Finance Committee before next following Council. Accepted by Council.

No. 6. 25-2-35.

COMMITTEES—

Constitution of Standing Committees of the Society for 1935-36. The Standing Committees to be constituted as below :—

(a) *Finance Committee :*

President	}	<i>Ex-officio.</i>
Treasurer		
General Secretary		
Dr. A. M. Heron.		
Dr. J. N. Mukherjee.		

(b) *Library Committee :*

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	}
Library Secretary	

(c) *Publication Committee :*

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	}
Library Secretary	

No. 4.

25-2-35.

Fixing dates for the next Council and Committee Meetings. The Council and Committee Meetings to be held on Monday, the 16th December, 1935.

No. 10

25-11-35.

CONDOLENCES—

Notice of decease of M. L. Finot, first Director of the French School of the Far East. Express the Society's condolences.

No. 1.

24-6-35.

Report receipt of news of death of (a) two Fellows Col. H. W. Acton and Dr. P. J. Bruhl, and (b) three former members of the Society, Sir John Thompson, Sir D. P. Sarvadhikary, and Dr. G. N. Mukhopadhyaya. Record and Announce.

No. 16.

30-9-35.

CONGRATULATIONS AND THANKS—

Outgoing Council. The Chairman expressed the Council's thanks to the outgoing members of Council for their services rendered to the Society and for their valued support given to the Council.

Resolved that the Council's thanks be conveyed to the outgoing members, and a special vote of thanks to Sir R. N. Mookerjee.

No. 15.

28-1-35.

Donation from Sir B. L. Mitter for the institution of a medal in memory of the late Mr. P. N. Bose. Accept with thanks. The General Secretary to put up draft of rules.

No. 3.

25-2-35.

Report presentation by Baron Ow Wachendorf of the Official German Record of International Policies of the Great European Powers from 1871-1914 in 40 volumes. Record with thanks to donor.

No. 1.

29-7-35.

Presentation by Sir B. L. Mitter of a portrait of the late Mr. P. N. Bose. Accept with thanks to donor.

No. 1.

26-8-35.

COUNCIL—

Outgoing Council. The Chairman expressed the Council's thanks to the outgoing members of Council for their services rendered to the Society and for their valued support given to the Council.

Resolved that the Council's thanks be conveyed to the outgoing members, and a special vote of thanks to Sir R. N. Mookerjee.

No. 15.

28-1-35.

Acceptance of seats on the Council by Council members. Record.

No. 1.

25-2-35.

Recommendations of the Finance Committee of 22-2-35. Accept. Also resolved that the General Secretary (Mr. Johan van Manen) be authorised to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer, Dr. S. L. Hora, from 11th March, 1935, until notification of the latter's return to Calcutta and resumption of office.

No. 6.

25-2-35.

Absence of Philological Secretary from Calcutta. Record. Request Dr. Chatterji to represent the Society at the 19th International Congress of Orientalists at Rome.

No. 1.

27-5-35.

Absence of Physical Science Secretary from Calcutta. Record.

No. 2.

27-5-35.

Absence of Honorary Treasurer from Calcutta. Resolved. That the General Secretary (Mr. Johan van Manen) be authorised to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer, Dr. S. L. Hora, from Thursday, the 26th September, 1935, until notification of the latter's return to Calcutta and resumption of office.

No. 5.

30-9-35.

Fixing dates for the next Council and Committee Meetings. The Council and Committee Meetings to be held on Monday, the 16th December, 1935.

No. 10.

25-11-35.

Informal consideration of the composition of Council for 1936-37

After discussion, the following list of candidates for nomination to next year's Council was placed before the meeting for consideration.

President	..	..	H. E. Sir John Anderson.
Vice-President	..	..	Sir David Ezra.
"	..	..	Sir U. N. Brahmachari.
"	..	..	Lt.-Col. R. Knowles.
"	..	..	Sir B. L. Mitter.
General Secretary	..	..	Johan van Maren.
Treasurer	..	..	Dr. S. L. Hora.
Phil. Secretary	..	..	Dr. S. K. Chatterji.
Jt. Phil. Secretary	..	..	Dr. M. Hidayat Hosain.
Nat. Hist. Secretary (Biology)	..	..	Dr. Baini Prashad.
" " (Phys. Sci.)	..	..	Dr. J. N. Mukherjee.
Anthropological Secretary	..	..	R. B. R. Chanda.

Medical Secretary ..	..	Lt.-Col. R. N. Chopra.
Library Secretary ..	..	Dr. A. M. Heron.
Member of Council ..	..	Mr. Percy Brown.
" " ..	..	Mr. C. C. Calder.
" " ..	..	Mr. N. G. Majumdar.
" " ..	..	Mr. N. Barwell.
" " ..	..	Mr. K. C. Mahindra.
" " ..	..	Mr. M. Mahfuzul Haq.

Resolved that the General Secretary do print and circulate to the members of Council the list of the members of the Council as at present constituted together with the new list placed before the meeting and provided with a blank column for additional names and these lists be returned to the General Secretary within a week of date of issue; and that a list be compiled of the candidates finally proposed and be placed before the next Council Meeting to be voted upon.

No. 11.

25-11-35.

Council nomination, 1936-37. The General Secretary reported that all Council members had returned the list of candidates circulated, duly signed and unanimously approved without any alternate suggestion. Resolved that the list of names placed before the Council in November Council Meeting be declared that of the Council candidates for election to next year's Council, and that it be ordered to be issued to the Resident Members, as prescribed in Rule 44.

No. 12.

16-12-35.

DONATION—

Appeal from Sir C. C. Ghose Memorial Committee. A donation of Rs. 50 be given to the fund.

No. 13.

28-1-35.

Letter from the President suggesting to give a donation of Rs. 150 to the Quetta Earthquake Relief Fund. Send Rs. 150. Invite contributions from Council Members and Ordinary Members.

No. 2.

24-6-35.

Recommendation. Finance Committee No. 2 of 21-6-35. Suggestion from the President to donate a sum of Rs. 150 to the Quetta Earthquake Relief Fund from the Society. Recommended that Rs. 150 be paid at once and that subscriptions be invited from Council and members to maximum individual contribution of Rs. 10. Accepted by Council.

No. 4.

24-6-35.

Report response to the appeal for donation for the Quetta Earthquake Relief Fund. Record.

No. 2.

29-7-35.

EXCHANGE OF PUBLICATIONS—

Request for exchange of publications from Lingnan Science Journal, Lingnan University, Canton, China. Exchange Journal. Attempt to be made to obtain complete set by exchange.

No. 12.

29-7-35.

Request for exchange of publication from the Book Exchange Department, U.S.S.R. Society for cultural relations with Foreign Countries, Moscow. Grant.

No. 13.

29-7-35.

Request for exchange of publication from Institut für Volkerkunde der Universität, Wien, Austria. Exchange Journal.

No. 14.

29-7-35.

Application for exchange of publications from the Government Epigraphist for India Exchange Journal, Letters.

No. 1.

28-10-35.

Exchange of publications. Offer exchange with Journal Sinensia and Journal of the Sze Chuan Research Society.

No. 10.

28-10-35.

FELLOWS—

Report receipt of news of death of (a) two Fellows Col. H. W. Acton and Dr. P. J. Bruhl, and (b) three former members of the Society, Sir John Thompson, Sir D. P. Sarvadlukary and Dr. G. N. Mukhapadhyaya. Record and Announce.

No. 16.

30-9-35.

FINANCE—

Recommendation Finance Committee No. 3 of 25-1-35. Application from Duffris Ebrahim and Nawab Jan to be allowed to contribute to the Society's Provident Fund. Grant to Ebrahim; hold over the case of Nawab Jan. Accepted by Council.

No. 9.

28-1-35.

Appeal from Sir C. C. Ghose Memorial Committee. A donation of Rs. 50 to be given to the fund.

No. 13.

28-1-35.

Letter from the Government of Bengal regarding remuneration for work in connection with the preparation of the Descriptive Catalogue of Sanskrit MSS. Accept recommendation Finance Committee.

No. 2.

25-2-35.

Recommendation Finance Committee No. 3(a) of 22-2-35. Auditors' report for the year 1934. Record. The Honorary Treasurer to consider and report on necessary action. Accepted by Council.

No. 6.

25-2-35.

Recommendation Finance Committee No. 3(b) of 22-2-35. Estimates periodical repairs to the building. The General Secretary and Honorary Treasurer to consider and make recommendations to Special Finance Committee before next following Council. Accepted by Council.

No. 6.

25-2-35.

Recommendation Finance Committee No. 3(c) of 22-2-35. Remuneration to Mr. C. Chakravarti, Sanskrit MSS. Catalogue. Accept proposal if Council agrees; Mr. Chakravarti is required to submit a monthly progress statement of work. Accepted by Council.

No. 6.

25-2-35.

Recommendation Finance Committee No. 3(d) of 22-2-35. Withdrawal resignation, Cashier. Accept. Accepted by Council.

No. 6.

25-2-35.

Recommendations of the Finance Committee of 22-2-35. Accept. Also resolved that the General Secretary (Mr. Johan van Manen) be authorised to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer, Dr. S. L. Hora, from 11th March, 1935, until notification of the latter's return to Calcutta and resumption of office.

No. 6.

25-2-35.

Recommendation Finance Committee No. 3(a) of 22-3-35. Report by the Honorary Treasurer regarding outstanding amounts due to Society on account of sale of books referred to by the Auditors in their last report, etc. Action approved. Treasurer to take such further action as he thinks fit. Accepted by Council.

No. 3.

25-3-35.

Finance Committee No. 7 of 26-4-35. Additional Investments: Invest Rs. 1,000—Face Value $3\frac{1}{2}\%$ paper for Permanent Library Fund. Invest Rs. 200 Face Value $3\frac{1}{2}\%$ paper for Servants' Pension Fund. Recommended that the various Permanent Investments be simplified by amalgamation of small investments in single or rounded amounts if this can be done with little expense and without administrative difficulty. Accepted by Council.

No. 6.

29-4-35.

Finance Committee No. 8 of 26-4-35. Simplification investments. Recommended that the various Permanent investments be simplified by amalgamation of small investments in single or rounded amounts if this can be done with little expense and without administrative difficulty. Accepted by Council.

No. 6.

29-4-35.

Recommendation Finance Committee No. 9 of 26-4-35. Staff Salary increments. That the increments be given with effect from the beginning of the current year. Council order: Accept, with addition of Rs. 5 increase to Pandit B. B. Mukherjee with effect from 1st January, 1935.

No. 6.

29-4-35.

Recommendations of the Finance Committee of 26-4-35. Accept, with addition of Rs. 5 increase to Pt. B. B. Mukherjee with effect from 1st January, 1935.

No. 6.

29-4-35.

Recommendation Finance Committee No. 3 of 24-5-35. Letter from the Imperial Bank of India, Park Street Branch, regarding interest allowed on Fixed Deposits. Record. The Honorary Treasurer kindly to consider at the occasion of the next temporary investment falling due, investment in: (a) Treasury Bills for different periods, (b) Fixed Deposit, Imperial Bank, and to make recommendations. Accepted by Council.

No. 4.

27-5-35.

Finance Committee No. 4 of 24-5-35. Conversion Investment Fund Accounts. Except for Permanent and Temporary reserve funds consolidate all holdings into single papers of $3\frac{1}{2}\%$ Government Loan of 1854-55, exchanging where necessary other scrip held into the scrip indicated. Accepted by Council.

No. 4.

27-5-35.

Recommendation Finance Committee No. 5 of 24-5-35. Increment of salary to menial staff. Increment to menials recommended according to the Honorary Treasurer's proposals. Accepted by Council.

No. 4.

27-5-35.

Recommendation Finance Committee No. 6 of 24-5-35. Application from Abdul Ghani, Library Duftri. The Honorary Treasurer to look into the matter and to make recommendation. Accepted by Council.

No. 4.

27-5-35.

Letter from the President suggesting to give a donation of Rs. 150 to the Quetta Earthquake Relief Fund. Send Rs. 150. Invite contributions from Council Members and Ordinary Members.

No. 2.

24-6-35.

Recommendation Finance Committee No. 2 of 21-6-35. Suggestion from the President to donate a sum of Rs. 150 to the Quetta Earthquake Relief Fund from the Society. Recommended that Rs. 150 be paid at once and that subscriptions be invited from Council and members to maximum individual contribution of Rs. 10. Accepted by Council.

No. 4.

24-6-35.

Removal of 10 names under Rule 38. Apply rules. Announce as removed from the member list under Rule 38.

No. 8.

24-6-35.

Report response to the appeal for donation for the Quetta Earthquake Relief Fund. Record.

No. 2.

29-7-35.

List of 14 members who are in arrears with subscriptions. Apply Rules.

No. 11.

29-7-35.

Absence of Honorary Treasurer from Calcutta. Resolved: That the General Secretary (Mr. Johan van Manen) be authorised to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer, Dr. S. L. Hora, from Thursday, the 26th September, 1935, until notification of the latter's return to Calcutta and resumption of office.

No. 5.

30-9-35.

Application from Shah Moinuddin Ahmad. Grant remission for two months without force of precedent.

No. 7.

30-9-35.

Application from Duftry Chummu. Restitute pay list deduction last month on compassionate allowance to applicant and also to other members of staff whose pay has been cut under similar circumstances.

No. 8.

30-9-35.

Application from Typist, N. Gupta. Leave granted for two weeks on half pay.

No. 9.

30-9-35.

Recommendation Finance Committee No. 9 of 24-9-35. Application from the Staff for Jubilee Bonus. Refer to Jubilee Committee. Accepted by Council.

No. 11.

30-9-35.

Finance Committee No. 10 of 24-9-35. Letter from Dr. Hora to Dr. Heron suggesting the purchase of 3 volumes of drawings on Indian Zoology. Recommendation: Council may be pleased to make a supplementary budget grant of Rs. 500 for the purchase, if possible, to be met wholly or partly by reappropriation from various budget heads at the end of the year. Accepted by Council.

No. 11.

30-9-35.

Recommendations of the Finance Committee of 24-9-35. Accepted with the modifications dealt with above.

No. 11.

30-9-35.

Recommendation Finance Committee No. 2(b) of 25-10-35. Statement of Receipts and Expenditure of the Society for the nine months ending 30th September, 1935. That an additional budget grant of Rs. 700 be made to meet excess of expenditure under salaries, to be found from anticipated surplus income. Accepted by Council.

No. 4.

28-10-35.

Recommendations of the Finance Committee of 25-10-35. Accepted, including the recommendations regarding an additional Budget grant.

Also resolved that the Honorary Treasurer be hereby authorised to transfer all temporary reserve funds to the Imperial Bank on fixed deposit when and as seems practical to him. For the intervening period moneys available may be deposited with the Central Bank on fixed deposit.

Also resolved that the Honorary Treasurer be hereby authorised to open a current account of Rs. 1,000 with an approved exchange bank as a permanent advance to obtain cheques for remittances to foreign countries and to be replenished from time to time when needed.

No. 4.

28-10-35.

Removal of names under Rule 40. Apply rules.

No. 8.

28-10-35.

Authority to make payments of bills during the end of the year. Resolved that the Hon. Treasurer and General Secretary be authorised to sign for and make payments of outstandings exceeding Rs. 100 during the period between the last Council Meeting of the year and the close of the year.

No. 12.

25-11-35.

Notice regarding the re-assessment from the Calcutta Corporation. Action approved.

No. 1.

16-12-35.

Recommendations of the Special Finance Committee of 13-12-35. Budget estimates for 1936. Accepted. All fans to be replaced subject to funds being available.

No. 5.

16-12-35.

FURNITURE—

Recommendations of the Special Finance Committee of 13-12-35. Budget estimates for 1936. Accepted. All fans to be replaced subject to funds being available.

No. 5.

16-12-35.

INDIAN MUSEUM—

Representation of the Society on the Board of Trustees of the Indian Museum. Sir U. N. Brahmachari to be the Society's representative.

No. 2.

25-11-35.

INDIAN SCIENCE CONGRESS—

Recommendation of the Indian Science Congress Calcutta Prize Advisory Board. Accept the Board's recommendation, Dr. M. N. Saha.

No. 4.

28-1-35.

JUBILEE CELEBRATIONS—

Anniversary Commemoration Volume. The General Secretary reported progress of preparation. Record. Division of editorial labours to be ascertained from previous records, and materials to be distributed accordingly to the members concerned.

No. 1 (special)

14-3-35. -

KAMALA LECTURESHIP—

Representation on the Selection Committee, Kamala Lectureship, Calcutta University. Sir U. N. Brahmachari to be the Society's representative.

No. 1.

28-1-35.

LEASE—

Letter from the Standard Oil Co. of New York, Calcutta, requesting to assign the lease to the revised name of the Company as 'Standard Vacuum Oil Co.', Calcutta. That the General Secretary be empowered to make the required assignment on behalf of the Council.

No. 11.

29-4-35.

LECTURES—

Proposed General Lecture by Mr. Sharma. N. G. Majumdar kindly to advise and on his recommendation an opportunity to be given to Mr. Sharma to expose his views to the public in the Society's hall.

No. 12.

29-4-35.

Public Lectures, winter session, 1935-36. Council members are invited to make offers of lecture to the General Secretary. The General Secretary to report in the next meeting.

No. 5.

29-7-35.

LIBRARY—

Application for the loan of Dr. E. Herzfeld's 'Paikuli' from Mr. M. B. Darbani. Grant loan.

No. 1.

30-9-35.

Letter from Dr. S. L. Hora to Dr. A. M. Heron suggesting the purchase of a set of watercolour drawings of Indian plants and fishes. Ask to send on approval; safe return guaranteed; to be purchased if approved upon examination.

No. 4.

30-9-35.

Finance Committee No. 10 of 24-9-35. Letter from Dr. Hora to Dr. Heron suggesting the purchase of 3 volumes of drawings on Indian Zoology. Recommendation: Council may be pleased to make a supplementary budget grant of Rs. 500 for the purchase, if possible, to be met wholly or partly by reappropriation from various budget heads at the end of the year. Accepted by Council.

No. 11.

30-9-35.

LOAN OF MSS.—

Report on manuscripts lent out during the month. Record. Recall manuscript of Sahasrika Prajna paramita within 10 days from date. Further resolved : that in future rules shall be strictly applied.

No. 1.

25-3-35.

Application for loan of Manuscripts from (1) Dr. P. C. Bagchi and (2) Dr. R. C. Majumdar : (1) Lend Buddhakalpa Tantra manuscript to Dr. Bagchi on bond of Rs. 200 ; (2) The Manuscript 'Habib-us-Sujar' not to be loaned out ; to be kept in special custody.

No. 3.

29-4-35.

Application for loan of manuscripts from the Punjab University Library. Record.

No. 4.

29-7-35.

Report on manuscripts lent out during the month and new loan applications. Record. Issue after observation of usual formalities.

No. 3.

26-8-35.

Application for the loan of five Persian Manuscripts from the Librarian, Allahabad University. Grant loan Nos. 1, 2 and 5 ; decline that of Nos. 3 and 4 on account of rarity.

No. 2.

30-9-35.

Application for the loan of four Sanskrit Manuscripts from Mr. T. R. Chintamani, Madras. Ask Dr. Heron for the original application and grant loan.

No. 3.

30-9-35.

Report on manuscripts lent out during the month. Record. The Allahabad University may be allowed to execute a general bond for Rs. 1,000 as security against manuscripts to be lent to them from time to time.

No. 3.

28-10-35.

Applications for loan of Manuscripts from the Society : (a) Registrar, University of Madras ; (b) Bhandarkar Oriental Research Institute, Poona ; (c) M. Ramakrishna Kavi, Madras : (a) Only two MSS. to be lent out against Indemnity Bond for their value ; (b) Write that either a hand-written copy may be arranged for or a mechanical reproduction. Advice to be obtained regarding the use of the Society's reproducing apparatus ; (c) The applicant to be asked to apply for the manuscripts through Gaekwad's Oriental Institute or through any recognised Institution in Madras.

No. 5.

25-11-35.

MANUSCRIPTS--

Letter from the Deputy Director to the Government of India, Department of Education, Health and Lands, to the Director General of Archaeology in India, regarding a collection of Manuscripts to be loaned to the Asiatic Society of Bengal. Accept, terms of letter of acceptance to be settled by General Secretary in consultation with Mr. N. G. Majumdar.

No. 9.

26-8-35.

MEETINGS—

Consideration of the programme of the Ordinary Monthly Meeting, May, 1935: (1) No meeting on the 6th May, Monday, on account of their Majesty's Jubilee Celebration. (2) The routine matters to be announced in the next General Meeting. (3) The Treasurer and General Secretary to arrange moderate gratuities to the menial staff.

No. 9. 29-4-35.

Date of next Ordinary Monthly Meeting. Next meeting in November.
No. 14. 30-9-35.

MEMBERSHIP—

Associate Membership. A special Council to be held on the 14th or 15th March for the consideration of the Anniversary commemoration volume; the institution of Associate Membership; and the application for a Royal title.

No. 9. 25-2-35.

Associate membership. Resolved that the proposal for the creation of a new form of Associate membership be rejected. That a Sub-Committee consisting of Sir U. N. Brahmachari, Dr. J. N. Mukherjee, and Mr. Van Manen be constituted to review the general question and to report.

No. 2 (special). 25-3-35.

List of members in arrears with subscriptions. Apply Rules.
No. 10. 29-4-35.

Removal of 10 names under Rule 38. Apply rules. Announce as removed from the member list under Rule 38.

No. 8. 24-6-35.

List of 14 members who are in arrears with subscriptions. Apply Rules.

No. 11. 29-7-35.

Removal of 7 names under Rule 40. Apply rules.

No. 8. 28-10-35.

MEMORIALS -

Recommendation of the Sir William Jones Medal Advisory Board. Accept the Board's recommendation, Sir U. N. Brahmachari.

No. 2. 28-1-35.

Recommendation of the Bruhl Memorial Medal Advisory Board. Accept the Board's recommendation, Mr. I. H. Burkill.

No. 3. 28-1-35.

Recommendation of the Indian Science Congress Calcutta Prize Advisory Board. Accept the Board's recommendation, Dr. M. N. Saha.

No. 4. 28-1-35.

Donation from Sir B. L. Mitter for the institution of a medal in memory of the late Mr. P. N. Bose. Accept with thanks. The General Secretary to put up draft of rules.

No. 3. 25-2-35.

Framing of Regulations regarding the award of the 'Pramatha Nath Bose Memorial Medal': Draft approved with the additional clause

suggested by the General Secretary. To be recorded that the Medal Fund will be debited with the costs of making a die for the medal and that this debit will be gradually refunded to the Society from surplus of revenue over expenditure.

(1) The Medal shall be awarded every three years at the Ordinary Annual Meeting of the Asiatic Society of Bengal in February.

(2) The Medal shall be bestowed on a person who, in the opinion of the Council has made conspicuously important contributions to practical or theoretical Geology with special reference to Asia.

(3) The General Secretary shall at a meeting of the Council preceding the Ordinary Meeting in November place before the meeting the names of at least three Geological Experts and three members of the Society for consideration.

The Council shall then proceed to appoint an Advisory Board of not less than three members selected from the list placed before them provided that the Council, for special reasons, shall be entitled to select persons outside the list. The Advisory Board shall always include two Geological Experts and the General Secretary shall be an ex-officio member of the Board.

(4) The Advisory Board shall be termed 'The Pramatha Nath Bose Memorial Medal Advisory Board'. The Board shall appoint a Chairman from amongst its members who shall have a casting vote (in addition to his own vote) in the event of the number of votes being equally divided.

(5) The General Secretary shall call a meeting of the Advisory Board on the first convenient date subsequent to the first Monday of December, at the same time requesting members to bring with them to the meeting a detailed statement of the work or attainments of such candidates as they may wish to propose. The General Secretary shall also place before the Board for consideration detailed statements of the work or attainments of any other candidate submitted by any Fellow of the Society. The Board shall make such arrangements as may be necessary for the selection of a name to be submitted to the Council at their December meeting.

(6) Notwithstanding anything determined in these Regulations, it shall be within the competence of the Board to abstain from the selection of any name to be submitted for the year and to report accordingly to the Council, in which case, provided the Council concurs, the award for the year shall lapse.

No. 4.

29-4-35.

Recommendation Finance Committee No. 3 of 22-8-35. Letter from Sir U. N. Brahmachari suggesting that the period of award of Sir William Jones Memorial Medal may be changed from two years to three years. Recommend to Council the acceptance of the suggestion of Sir U. N. Brahmachari. Accepted by Council.

No. 4.

26-8-35.

Letter from Sir U. N. Brahmachari regarding the Sir William Jones Memorial Medal. Accept Sir U. N. Brahmachari's suggestion and change the period of the award into a triennial one. Further resolved that the advice of Sir B. L. Mitter be asked with regard to the wording of clause 6 of the Pramatha Nath Bose Memorial Medal, and that after revision by Sir B. L. Mitter this wording to be also adopted for all other medal awards in substitution of the present clause 6.

No. 8.

26-8-35.

Matters relating to the Regulations regarding the award of the 'Pramatha Nath Bose Memorial Medal'. Accept Sir B. L. Mitter's suggestions and modify accordingly clauses 1 and 6 of the regulations for all other awards.

No. 6.

30-9-35.

Appointment of Advisory Board for the award of : (a) *Barclay Memorial Medal* ; (b) *Joy Gobind Law Memorial Medal*.

(a) The Board to consist of :

The President,
Biological Secretary,
Medical Secretary,
Dr. S. L. Hora, and
The General Secretary

with power to co-opt additional members ;

(b) The Board to consist of :

The President,
Biological Secretary,
Dr. S. L. Hora,
Dr. S. C. Law,
Col. R. N. Chopra, and
The General Secretary

with power to co-opt additional members.

No. 2.

28-10-35.

Recommendation of the Barclay Memorial Medal Advisory Board.
Accept the Board's Recommendation, Dr. B. Sahni.

No. 9.

16-12-35.

Recommendation of the Joy Gobind Law Memorial Medal Advisory Board. Accept the Board's Recommendation, Prof. L. S. Berg.

No. 10.

16-12-35.

MISCELLANEOUS—

Letter from Prof. Vogel requesting back numbers of the Journal for the Kern Institute, Leiden, Holland, forwarded by Dr. Hora. Present one copy of every item of which more than 20 copies are available.

No. 2.

25-3-35.

Letter from the Private Secretary to H.E. the Viceroy regarding the Society's application for a Royal Charter. Record.

No. 2.

26-8-35.

Cessation of the excavations of Mohenjo Daro. A Sub-Committee consisting of Sir B. L. Mitter, Mr. Percy Brown, R. B. R. Chanda and Mr. Van Manen to draft a letter to be considered in circulation.

No. 3.

25-11-35.

Notification from the Calcutta Corporation regarding the Municipal Election. General Secretary to represent the Society.

No. 2.

16-12-35.

NATIONAL INSTITUTE OF SCIENCES OF INDIA—

Office accommodation to the National Institute of Science. The General Secretary to see whether the north front room on the ground floor can be conveniently vacated and placed at the disposal of the Institute. The Secretary and Dr. Hora to decide final arrangement.

No. 5.

28-1-35.

Report use of the Society's Hall for a Council Meeting of the National Institute of Sciences of India. Action approved.

No. 1.

29-4-35.

Representation of the Society on the Council of the National Institute of Sciences of India. Col. Chopra and Mr. Caldor to be the Society's representatives.

No. 3.

16-12-35.

PRESENTATIONS—

Report presentation by Baron Ow Wachendorf of the Official German Record of International Policies of the Great European Powers from 1871-1914 in 40 volumes. Record with thanks to donor.

No. 1.

29-7-35.

Presentation by Sir B. L. Mitter of a portrait of the late Mr. P. N. Bose. Accept with thanks to donor.

No. 1.

26-8-35.

PROVIDENT FUND.—

Recommendation Finance Committee No. 3 of 25-1-35. Application from Duftris Ebrahim and Nawab Jan to be allowed to contribute to the Society's Provident Fund. Grant to Ebrahim, hold over the case of Nawab Jan. Accepted by Council.

No. 9.

28-1-35.

Recommendation Finance Committee No. 5 of 26-7-35. Resignation of Mr. N. M. Ramachandran, File Clerk of the Society. Accept. Provident Fund Share to be paid for 5 years according to the regulations. Accepted by Council.

No. 7.

29-7-35.

PUBLICATIONS—

Division of the Journal. The two parts of the Journal to be styled JASB (Letters) and JASB (Science).

No. 14.

28-1-35.

Letter from the Government of Bengal regarding remuneration for work in connection with the preparation of the Descriptive Catalogue of Sanskrit MSS. Accept recommendation Finance Committee.

No. 2.

25-2-35.

Recommendation Finance Committee No. 3(c) of 22-2-35. Remuneration to Mr. C. Chakravarti, Sanskrit MSS. Catalogue. Accept proposal if Council agrees; Mr. Chakravarti is required to submit a monthly progress statement of work. Accepted by Council.

No. 6.

25-2-35.

Anniversary Commemoration Volume. The General Secretary reported progress of preparation. Record. Division of editorial labours to be ascertained from previous records, and materials to be distributed accordingly to the members concerned.

No. 1 (special)

14-3-35.

Recommendation, Publication Committee No. 1 of 25-3-35. Appointment of Secretary for the Publication Committee. Dr. Hora to be requested to accept the Secretaryship. Accepted by Council.

No. 5.

25-3-35.

Recommendation Publication Committee No. 2 of 25-3-35. Resolved that the Press Clerk be instructed to prepare a list of outstanding matter. Also resolved that the General Secretary be authorised to ask for certificates of press-readiness of papers placed before the Publication Committee and to press for speeding up the return of such papers. Accepted by Council.

No. 5.

25-3-35.

Recommendation Publication Committee No. 3 of 11-4-35 :
(a) Present position of the Journal ; (b) Title lines. Journal.

(a) Record with satisfaction ; (b) In the new series the name of the author of article to be on the left-hand side and the title of paper to be on the right-hand side page heading. Council Order : Minutes to be first circulated to the Council before being considered by it. The Publication Secretary to be empowered to act at his discretion in the meantime with reference to all materials in hand in anticipation of sanction.

No. 8.

29-4-35.

Recommendation. Publication Committee No. 5 of 11-4-35. Duties of the Secretary of the Publication Committee and the procedure to be adopted for the meeting of the Committee. Secretary to carry on entire correspondence with the Members of the Publication Committee and to transmit to office instructions to be forwarded to author. General Secretary to correspond with the press. Council Order : Minutes to be first circulated to the Council before being considered by it. The Publication Secretary to be empowered to act at his discretion in the meantime with reference to all materials in hand in anticipation of sanction.

No. 8.

29-4-35.

Recommendations of the Publication Committee. Minutes of the Meeting held on 11th April, 1935, to be first circulated to the Council before being considered by it.

The Publication Secretary to be empowered to act at his discretion in the meantime with reference to all materials in hand in anticipation of sanction.

No. 8.

29-4-35.

REPRESENTATION—

Representation of the Society on the Board of Trustees of the Indian Museum. Sir U. N. Brahmachari to be the Society's representative

No. 2.

25-11-35.

Representation of the Society on the Council of the National Institute of Sciences of India. Lt.-Col. R. N. Chopra and Mr. C. C. Caldar to be the Society's representatives.

No. 3.

16-12-35.

REQUESTS—

Request for exchange of publications from Linguan Science Journal, Linguan University, Canton, China. Exchange Journal. Attempt to be made to obtain complete set by exchange.

No. 12.

29-7-35.

Request for exchange of publication from the Book Exchange Department, U.S.S.R. Society for cultural relations with Foreign Countries, Moscow. Grant.

No. 13.

29-7-35.

Request for exchange of publication from Institut für Volkerkunde der Universität, Wien, Austria. Exchange Journal.

No. 14.

29-7-35.

Application for exchange of publications from the Government Epigraphist for India. Exchange Journal. Letters.

No. 1.

28-10-35.

Exchange of publications. Offer exchange with Journal Sinensia and Journal of the Sze Chuan Research Society.

No. 10.

28-10-35.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant ; General Secretary's letter approved.

No. 1.

25-11-35.

ROYAL CHARTER—

Letter from the Private Secretary to H. E. the Viceroy regarding the Society's application for a Royal Charter. Record.

No. 2.

Royal Title. The General Secretary to consult Mr. Justice J. Lort-Williams and the Private Secretary to H.E. the Governor of Bengal and to prepare a draft.

No. 3 (special)

14-3-35,

RULES AND REGULATIONS—

Framing of Regulations regarding the award of the 'Pramatha Nath Bose Memorial Medal'. Draft approved with the additional clause suggested by the General Secretary. To be recorded that the Medal Fund will be debited with the costs of making a die for the medal and that this debit will be gradually refunded to the Society from surplus of revenue over expenditure.

No. 4.

29-4-35.

(1) The Medal shall be awarded every three years at the Ordinary Annual Meeting of the Asiatic Society of Bengal in February.

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(4) The Advisory Board shall be termed 'The Pramatha Nath Bose Memorial Medal Advisory Board'. The Board shall appoint a Chairman from amongst its members who shall have a casting vote (in addition to his own vote) in the event of the number of votes being equally divided.

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(6) Notwithstanding anything determined in these Regulations, it shall be within the competence of the Board to abstain from the selection of any name to be submitted for the year and to report accordingly to the Council, in which case, provided the Council concurs, the award for the year shall lapse.

Letter from Sir U. N. Brahmachari regarding the Sir William Jones Memorial Medal. Accept Sir U. N. Brahmachari's suggestion and change the period of the award into a triennial one. Further resolved that the advice of Sir B. L. Mitter be asked with regard to the wording of clause 6 of the Pramatha Nath Bose Memorial Medal, and that after revision by Sir B. L. Mitter this wording to be also adopted for all other medal awards in substitution of the present clause 6.

No. 8.

26-8-35.

Matters relating to the Regulations regarding the award of the 'Pramatha Nath Bose Memorial Medal'. Accept Sir B. L. Mitter's suggestions and modify accordingly clauses 1 and 6 of the regulations for all other awards.

No. 6.

30-9-35.

STAFF—

Recommendation Finance Committee No. 3(d) of 22-2-35. Withdrawal resignation, Cashier. Accept. Accepted by Council.

No. 6.

25-2-35.

Recommendation Finance Committee No. 9 of 26-4-35. Staff Salary increments. That the increments be given with effect from the beginning of the current year. Council order; Accept, with addition of Rs. 5 increase to Pandit B. B. Mukherjee with effect from 1st January, 1935.

No. 6.

29-4-35.

Recommendations of the Finance Committee of 26-4-35. Accept, with addition of Rs. 5 increase to Pandit B. B. Mukherjee with effect from 1st January, 1935.

No. 6.

29-4-35.

Consideration of the programme of the Ordinary Monthly Meeting May, 1935. The Treasurer and General Secretary to arrange moderate gratuities to the menial staff.

No. 9(3).

29-4-35.

Recommendation Finance Committee No. 5 of 24-5-35. Increment of salary to menial staff. Increment to menials recommended according to the Honorary Treasurer's proposals. Accepted by Council.

No. 4

27-5-35.

Recommendation Finance Committee No. 6 of 24-5-35. Application from Abdul Ghani, Library Duffri. The Honorary Treasurer to look into the matter and to make recommendation. Accepted by Council.

No. 4.

27-5-35.

Application from File Clerk, Ramachandran, for leave. Applicant to be examined by Col. Knowles.

No. 9.

24-6-35.

Recommendation Finance Committee No. 5 of 26-7-35. Resignation of Mr. N. M. Ramachandran, File Clerk of the Society. Accept. Provident Fund Share to be paid for 5 years according to the regulations. Accepted by Council.

No. 7.

29-7-35.

Application from Shah Moinuddin Ahmad. Grant remission for two months without force of precedent.

No. 7.

30-9-35.

Application from Duftry Chunnu. Restitute pay list deduction last month on compassionate allowance to applicant and also to other members of staff whose pay has been cut under similar circumstances.

No. 8

30-9-35.

Application from Typist, N. Gupta. Leave granted for two weeks on half pay.

No. 9.

30-9-35.

Recommendation Finance Committee No. 9 of 24-9-35. Application from the Staff for Jubilee Bonus. Refer to Jubilee Committee. Accepted by Council.

No. 11.

30-9-35.

TAXES—

Notice regarding the re-assessment from the Calcutta Corporation. Action approved.

No. 1.

16 12-35.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Asiatic Society of Bengal,
On the 31st December, 1935.**

PATRONS OF THE ASIATIC SOCIETY OF BENGAL.

1931	∴	∴ H.E. the Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E., Viceroy and Governor- General of India.
1932	∴	∴ H.E. the Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.
1910-1916	∴	∴ Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O. I.S.O.
1917-1922	∴	∴ Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1922-1927	∴	∴ Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	∴	∴ Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	∴	∴ Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1935.

Elections Annual Meeting.

President

Sir Lewis Fermor, Kt., O.B.E., A.R.S.M., D.Sc. (London), F.G.S.,
M.Inst. M.M., F.R.S., F.A.S.B.

Vice-Presidents.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D., Ph.D.,
F.S.M.F., F.A.S.B.

Lt.-Col. R. Knowles, B.A. (Cantab.), M.R.C.S., L.R.C.P., I.M.S., F.A.S.B.
The Hon'ble Sir B. L. Mitter, K.C.S.I., Barrister-at-Law.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E., F.A.S.B.

Treasurer :—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S., F.R.S.E., F.A.S.B.

Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit. (Lond.).

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlavi M. Hidayat
Hosain, Khan Bahadur, Ph.D., F.A.S.B.

Natural History Secretaries. { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.A.S.B.

{ Physical Science :—J. N. Mukherjee, Esq., D.Sc.
(Lond.), F.C.S. (Lond.).

Anthropological Secretary :—Rai Bahadur Ramaprasad Chanda, B.A.,
F.A.S.B.

Medical Secretary :—Lt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S.,
F.A.S.B.

Library Secretary :—A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S.,
F.R.S.E.

Other Members of Council.

L. R. Fawcett, Esq., B.A. (Cantab.), I.C.S.

Percy Brown, Esq., A.R.C.A., F.A.S.B.

The Hon'ble Mr. Justice J. Lort-Williams, K.C., Barrister-at-Law.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A.

APPOINTMENTS, TRANSFERS, AND OTHER CHANGES DURING THE YEAR

Mr Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora,
absent, from 12-3-35 to 29-3-35, and from 25-9-35 to 15-10-35.

Sir Lewis Fermor, absent from 15-1-35 to 1-2-35; from 18-4-35 to 5-8-35;
and from 17-9-35 to 1-11-35.

Dr. A. M. Heron, absent from 1-1-35 to 1-4-35; from 15-5-35 to 15-6-35;
and from 25-9-35 to 18-10-35.

Mr. L. R. Fawcett, absent from 1-1-35 to 15-4-35; from 1-11-35 to
31-12-35.

Mr. Percy Brown, absent from 1-4-35 to 1-7-35.

Lt.-Col. R. N. Chopra, absent from 18-4-35 to 17-7-35.

Sir B. L. Mitter, absent from 11-4-35 to 25-6-35; and from 1-9-35 to
1-11-35.

Dr. S. K. Chatterji, absent from 1-5-35 to 1-9-35.

Dr. J. N. Mukherjee, absent from 31-5-35 to 30-9-35.

Sir U. N. Brahmachari, absent from 3-6-35 to 10-7-35.

Mr. C. C. Calder, absent from 1-6-35 to 1-12-35.

R.B. R. Chanda, absent from 5-8-35 to 9-9-35.

Justice Lort-Williams, absent from 15-7-35 to 5-11-35.

**OFFICERS AND MEMBERS OF COUNCIL OF
THE ASIATIC SOCIETY OF BENGAL
ELECTED FOR THE YEAR 1936.**

President.

H.E. The Rt. Hon'ble Sir John Anderson, P.C., G.C.B., G.C.I.E.

Vice-Presidents.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D.,
Ph.D., F.A.S.B.

Lt.-Col. R. Knowles, C.I.E., B.A. (Cantab.), M.R.C.S., L.R.C.P.,
I.M.S., F.A.S.B.

The Hon'ble Sir B. L. Mitter, K.C.S.I., Barrister-at-Law.

Secretaries and Treasurer.

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Date of Election.		
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7-3-27	R	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZIL (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Islamia College</i> . 19, Wellesley Square, Calcutta.
2-11-25	N	Acharya , PARAMANANDA, B.Sc., <i>Archæological Scholar</i> Mayurbhanj State, Baripada.
2-3-21	R	Agharkar , SHANKAR PURUSHOTTAM, M.A., PH.D., F.L.S., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University</i> . 35, Ballygunge Circular Road, Calcutta.
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan</i> . 2, Andrabt, Kabul, Afghanistan.
6-6-17	N	Aiyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A., <i>Late Director of Public Instruction, Travancore; Principal, Central Hindu College, Hindu University</i> . Benares.
6-12-26	N	* Aiyangar , S. KRISHNASWAMI, M.A., PH.D., M.R.A.S., F.R.HIST.S., F.A.S.B., <i>Rajasevasakta, Professor, University of Madras</i> . "Sripadam", 143, Brodies Road, Mylapore, Madras, S
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti</i> . Hoti, N.-W.F.P.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. c/o The Royal Empire Society, Northumberland Avenue, London, W.C.
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant</i> . Trueloves, Ingates-tone, Essex, England.
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd.</i> Norton Building, Lalbazar, Calcutta.
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., I.E.S., <i>Professor of Zoology</i> . Royal Institute of Science, Mayo Road, Fort, Bombay.
3-3-14	L	* Bacot , J., F.A.S.B. Boulevard Saint-Antoine, 61, Versailles Seine-et-Oise, France.
1-11-26	R	Bagchi , PROBODH CHANDRA, M.A., DR.-ES-LETTRES (PARIS), <i>Member of the A.S. of Paris; Lecturer, Calcutta University</i> . 9, Rustomjee Street, Ballygunge, Calcutta.
1-3-26	R	Bagnall , JOHN FREDERICK, B.Sc., A.M.I.Mech.E., A.M.I.E.E., A.M.Inst.C.E., <i>Consulting Engineer, Messrs. Macneill & Co.</i> 2, Fairlie Place, Calcutta.

Date of Election.		
2-4-24	N	Bahl, K. N., D.SC., D.PHIL., Professor of Zoology, Lucknow University. Badshabagh, Lucknow.
7-3-27	A	Bake, A. A., Doctorandus Or. Lit. P.O. Santiniketan (c/o The Kern Institute, Leiden, Holland.)
6-2-18	N	Banerjee, NARENDRA NATH, M.I.P.O.E.E., A.M.I.E., Director of Telegraphs, Bombay Circle, Bombay.
5-3-24	R	Banerjee, P. N., M.A. (CANTAB.), A.M.I.E., F.C.U., Civil Engineer. 12, Mission Row, Calcutta.
1-11-26	N	Barhut, THAKUR KISHORESINGH JI, State Historian of Patiala Government. History and Research Department, Patiala.
3-8-31	N	Barua, THE HON'BLE KANAK LAL, RAI BAHADUR, B.L., F.R.S.E., President, Kamarupa Anusundhan Samiti, Minister to the Government of Assam. Rosaville, Nangthymai, Shillong, Assam.
3-12-23	R	Barwell, N. F., LT.-COL. (RETD.), M.C, M.A., Bar-at-Law. First Floor, 10, Middleton Street, Calcutta (and) Aylmerton House, Aylmerton, Norfolk, England.
6-1-30	A	Bassewitz, COUNT, late Consul-General for Germany. Europe.
4-3-29	R	Basu, THE HON'BLE BEJOY K., C I E., M.A., B.L., Solicitor, High Court. 50, Goaltule Road, Bhawanipore, Calcutta.
3-12-24	R	Basu, JATINDRA NATH, M A., M.L.C., Solicitor. 14, Baloram Ghose Street, Calcutta.
1-3-26	R	Basu, NARENDRA KUMAR, M.L.C., Advocate, High Court. 12, Ashu Biswas Road, Bhawanipore, Calcutta.
2-1-28	R	Basu, NARENDRA MOHAN, M.S.C., Professor of Physiology. 63, Hindusthan Park, Ballygunge, Calcutta
7-1-29	R	Basu, SARAT CHANDRA, Advocate. 143, Dhurumtollah Street, Calcutta.
30-9-35	N	Basu, SATYENDRA KUMAR, M.S.C., Extra Assistant Conservator of Forests. Clover Cot, Darjeeling.
5 2-34	N	Bates, WILLIAM HAYES, Ceramic Engineer, Burn & Co., Ltd. Ranigunj, Dt. Burdwan.
7-7-09	N	Bazaz, RANGNATH KHEMRAJ, Proprietor, Shri Venkateshwar Press. 7th Khetwadi, Bombay No. 4.
3-7-95	L	Beatson-Bell, REV. SIR NICHOLAS DODD, K.C.S I., K.C.I.E. Edgecliffe, St. Andrews, Scotland.
7-5-34	R	Bent, WILLIAM ANTONY, Assistant, Messrs. George Henderson & Co., Ltd. 101/1, Clive Street, Calcutta.
4-3-25	R	Benthall, SIR EDWARD C., KT., Merchant. 37, Ballygunge Park, Calcutta.
7-4-09	L	*Bentley, CHARLES A., C.I.E., M.B., D.P.H., D.T.M. & H., F.A.S.B., Professor of Hygiene. University of Egypt, Cairo.
4-6-28	N	Bhadra, SATYENDRA NATH, RAI BAHADUR, M.A., Principal, Jagannath Intermediate College. Nayabazar, Dacca.
1-8-17	R	*Bhandarkar, DEVADATTA RAMKRISHNA, M.A., PH.D., F.A.S.B. 10, Ritchie Road, Ballygunge, Calcutta.
5-4-26	N	Bhatia, M. L., M.S.C., Lecturer in Zoology. Lucknow University, Lucknow.
4-11-08	R	Bhattacharya, BISVESVAR, B.A., M.R.A.S. 16, Townshend Road, Bhawanipore, Calcutta.
1-2-22	N	Bhattacharya, VIDHUSHEKHARA, PANDIT, Principal, Vidyabhavana. Visvabharati, Santiniketan, Birbhum.
7-7-24	L	Bhattacharyya, BINOYTOSH, M.A., PH.D., Rajaratna, General Editor, Gaskwad's Oriental Series, and Librarian, Oriental Collections, Baroda State. Baroda.

Date of Election.		
2-4-28	R	Bhattacharyya , NIBARAN CHANDRA, M.A., <i>Professor of Physiology, Presidency College.</i> 19, Hindusthan Road, Ballygunge, Calcutta.
4-6-28	N	Bhattachali , NALINI KANTA, M.A., PH.D., <i>Curator, Dacca Museum.</i> Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., <i>Advocate, Calcutta High Court.</i> 24A, Ray Bagan Street, Calcutta.
5-2-34	N	Bhuyan , SURYYA KUMAR, RAI BAHADUR, M.A., B.L., A.E.S., <i>Honorary Provincial Director of Historical and Antiquarian Studies, Assam; Professor, Cotton College.</i> Gauhati, Assam.
5-3-28	R	Biswas , CHARU CHANDRA, C.I.E., M.A., B.L., <i>Advocate, High Court.</i> 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	R	Biswas , KALIPADA, M.A. <i>Royal Botanic Garden, Sibpur, Howrah.</i>
3-1-27	N	Bivar , HUGH GODFREY STUART, I.O.S., <i>District and Sessions Judge.</i> Murshidabad.
1-2-93	L	*Bodding , REV. P. O., M.A. (CHRIST.), F.A.S.B. <i>Gullerasveien 27, Vettakollen, Oslo, Norway.</i>
4-11-35	A	Bor , N. L., M.A., D.SC., F.L.S., I.F.S. c/o. The Conservator of Forests, Shillong, Assam.
6-3-95	R	*Bose , SIR JAGADIS CHANDRA, KT, C.S.I., C.I.E., F.R.S., M.A., D.SC., F.A.S.B. <i>Bose Institute, 91, Upper Circular Road, Calcutta.</i>
6-7-25	R	Bose , MANMATHA MOHAN, M.A., <i>Professor Emeritus, Scottish Church College.</i> 19, Gokul Mitra Lane, Hatkhola, Calcutta.
2-3-31	N	Bose , SUDHANSU KUMAR, B.SC. (CAL.), A.R.S.M., B.SC. (MINING) (LONDON), <i>Professor of Mining and Surveying, Indian School of Mines, Dhanbad.</i>
4-5-31	A	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., <i>Director of Public Instruction, Bengal.</i> 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., <i>Adviser in Languages and Secretary to the Board of Examiners.</i> Army Headquarters, Simla.
3-12-34	R	Brahmachari , PHANINDRA NATH, M.SC., M.B. 82/3, Cornwallis Street, Calcutta.
1-1-08	L	*Brahmachari , SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.A.S.B. 82/3, Cornwallis Street, Calcutta.
7-11-27	N	Brahmachary , SARAT CHANDRA, RAI BAHADUR, M.A., B.T. <i>Kasba Road, Ballygunge, P.O. Dhakuria, 24-Pergs.</i>
3-7-07	L	*Brown , JOHN COGGIN, O.B.E., D.SC., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
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8-1-96	F	*Burn , SIR RICHARD, KT., C.S.I., F.A.S.B. 9, Staverton Road, Oxford, England.
3-12-34	N	Burt , SIR BRYCE CHUDLEIGH, KT., C.I.E., M.B.E., B.SC., I.A.S., <i>Agricultural Expert, Imperial Council of Agricultural Research.</i> 1, York Road, New Delhi.
2-4-13	R	Calder , CHARLES CUMMING, B.SC., F.L.S., <i>Superintendent, Royal Botanic Garden.</i> Sibpur, Howrah.
4-11-29	R	Campbell , SIR GEORGE R., KT., <i>Partner, Messrs. Mackinnon Mackenzie & Co.</i> 16, Strand Road, Calcutta.

Date of Election.		
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7-3-32	R	Chakraborty, KETRODE BEHARI, <i>Engineer and Manufacturer</i> . 7, Hindusthan Park, P.O. Ballygunge, Calcutta.
4-7-27	R	Chakravarti, CHINTAHARAN, M.A., <i>Lecturer, Bethune College</i> . 28/3, Sahanagar Road, Kalighat, Calcutta.
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5-6-33	N	Chakravarti, SUSIL KUMAR, M.A., <i>Zemindar</i> . Cooch Behar (Cooch Behar State).
3-1-27	N	Chakravarty, NIRANJANPRASAD, M.A., PH.D. (CANTAB.), <i>Government Epigraphist</i> . Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
6-1-30	A	Chakraverti, SHRISH CHANDRA, B.L., <i>Attorney-at-Law, High Court, Calcutta</i> . 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda, RAMAPRASAD, RAI BAHADUR, B.A., F.A.S.B. P. 463, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman, JOHN ALEXANDER, <i>Librarian, Rampur State Library</i> . Rampur.
7-5-28	R	Chatterjea, SIR NALINI RANJAN, KT., M.A., B.L., <i>Retired Judge and sometime acting Chief Justice, Calcutta</i> . 91A, Harish Mukerjee Road, Bhawanipore, Calcutta.
7-2-27	R	Chatterjee, ASHOKE, B.A. (CAL.), B.A. (CANTAB.), <i>Editor, "Welfare"</i> . 91, Upper Circular Road, Calcutta.
27-10-15	F	Chatterjee, SIR ATUL CHANDRA, K.C.I.E., K.O.S.I., <i>Late High Commissioner for India</i> . Withdean, Cavendish Road, Weybridge, Surrey, England.
1-10-20	R	Chatterjee, NIRMAL CHANDRA. 52, Haris Mukerjee Road, Bhawanipore, Calcutta.
4-7-27	R	Chatterjee, PATITPABON, M.A., B.L., <i>Vakil, High Court</i> . 84, Harrison Road, Calcutta.
3-12-34	R	Chatterjee, SISIR CHANDRA, M.D. (EDIN.), M.R.C.P. (EDIN.), D.P.H. (EDIN.), <i>Chief Medical Officer, E.B. Ry.</i> 3, Koilagh Street, Calcutta.
5-1-31	R	Chatterji, DURGACHARAN, M.A., <i>Lecturer in Sanskrit, Bethune College</i> . P. 317, Jatin Das Road, Kalighat, Calcutta.
4-6-34	N	Chatterji, BIJAN RAJ, PH.D. (LONDON), D.LITT. (PUNJAB), <i>Professor of History, Meerut College</i> . Meerut.
7-5-28	R	Chatterji, KEDAR NATH, B.SC. (LONDON), A.E.C.S. (LONDON). 43, Wellesley Street, Calcutta.
7-6-11	R	Chatterji, KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 6/1, Wood Street, Calcutta
6-8-24	R	Chatterji, SUNITI KUMAR, M.A. (CAL.), D.LIT. (LONDON), <i>Khaira Professor of Linguistics, Calcutta University</i> . "Sudharma", 16, Hindusthan Park, (off Rasbihari Avenue East End), Ballygunge, Calcutta.
5-11-24	R	Chattopadhyay, K. P., M.Sc., <i>Education Officer, Corporation of Calcutta</i> . 55/1, Old Ballygunge 1st Lane, Calcutta.
2-11-25	N	Chattopadhyaya, KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit</i> . Allahabad University, Allahabad.
1-4-14	R	Chaudhuri, GOPAL DAS. 32, Beadon Row, Calcutta.
6-12-26	R	Chokhani, SREENARAYAN, <i>Secretary, Shree Hanuman Pustkhalaya</i> . 8, New Ghuseri Road, Salkes, Howrah.
5-12-23	R	Chopra, B. N., D.Sc., F.L.S., <i>Assistant Superintendent, Zoological Survey of India</i> . Indian Museum, Calcutta.

Date of Election.		
1-2-22	R	*Chopra, R. N., C.I.E., M.A., M.D. (CANTAB.), BREVET.-COL., I.M.S., F.A.S.B., <i>Professor of Pharmacology</i> . School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.
5-11-28	R	Chopra, GOPICHAND. 47, Khangraputty, Calcutta.
5-12-27	L	Chowdhury, SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road, Calcutta.
2-4-28	R	Chowdhury, RAI JATINDRANATH, <i>Zemindar</i> . 36, Russa Road, Tollygunge, Calcutta.
3-7-07	L	*Christie, WILLIAM ALEXANDER KYNOCH, B.SC., PH.D., M.INST.M.M., F.A.S.B. c/o The Lloyds Bank, 6, Pall Mall, London, S. W. 1.
3-11-09	A	*Christophers, SIR SAMUEL RICKARD, KT., C.I.E., O.B.E., F.R.S., F.A.S.B., M.B., LT.-COL., I.M.S. 80, Onslow Gardens, South Kensington, London, S.W. 7.
1-9-15	R	Cleghorn, MAUDE LINA WEST (MISS), F.L.S., F.E.S. 43, Moulahat Road, Calcutta.
2-2-31	A	Clough, JOHN, <i>Barrister-at-Law</i> . 17, Store Road, Ballygunge, Calcutta.
4-2-35	N	Cookson, CHRISTOPHER ARTHUR, <i>Assistant, The Bombay Co., Ltd.</i> Delhi.
5-5-30	F	Cooper, G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
3-9-34	R	Couchman, BRIGADIER HAROLD JOHN, D.S.O., M.C., <i>Surveyor-General of India</i> . Survey of India, 13, Wood Street, Calcutta.
6-11-33	R	Coulson, ARTHUR LENNOX, D.SC. (MELB.), D.I.C., F.G.S. Geological Survey of India, 27, Chowringhee, Calcutta.
4-11-29	L	*Cotter, GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.A.S.B. "Fallowfield", Manor Road, Penn., Bucks., England.
5-3-34	R	Craddock, SIR WALTER MERRY, KT., D.S.O., COLONEL, M.C., <i>Stock Broker</i> . Bengal Club, Calcutta.
25-8-87	R	Criper, WILLIAM RISON, F.O.S., F.I.C., A.R.S.M. Konnagar.
2-11-25	A	Crookshank, HENRY, B.A., B.A.I. (DUBLIN), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-3-32	R	Darbari, M. D., <i>Incorporated Accountant, S.B. Billimoria & Co., Ltd.</i> 100, Clive Street, Calcutta.
4-3-25	R	Das, AJIT NATH, RAI BAHADUR, M.R.A.S., F.Z.S., <i>Zemindar</i> . 24, South Road, Entally, Calcutta.
3-12-24	R	Das, SURENDRA NATH, M.B., <i>Medical Practitioner</i> . 67, Nimtala Ghat Street, Calcutta.
6-9-22	R	Das-Gupta, SURENDRA NATH. M.A., PH.D., I.E.S., <i>Principal, Sanskrit College</i> . 1, College Square, Calcutta.
1-3-26	R	Datta, HIRENDRA NATH, M.A., B.L., <i>Solicitor, High Court</i> . 139, Cornwallis Street, Calcutta.
3-6-25	N	Datta, S. K., B.A., M.B., CH.B. (EDIN.), <i>Principal, Forman Christian College</i> . Lahore.
4-6-34	R	Daver, NANABHOY SORABJI, B.A. (HONS.), <i>Mercantile</i> . c/o Parke, Davis & Co., 5, Dhurrumtollah Street, Calcutta.
6-8-24	L	Davies, L. M., LT.-COL., LATE R.A., M.A., F.R.S.E., F.R.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	R	De, J. C., M.B., LT.-COL., I.M.S., <i>Superintendent, Campbell Medical School</i> . 135, Lower Circular Road, Calcutta.

Date of Election.		
19-9-95	L	De, KIRAN CHANDRA, O.I.E., B.A., I.C.S. (BETD.), <i>Manager, Nawab Bahadur of Murshidabad Estate.</i> Lalbigh, Murshidabad.
5-12-32	N	Deb, SUSHIL KUMAR, B.A. Sheikghat, P.O. Sylhet, Dt. Assam.
5-12-27	L	Dechhen, H.H. MAHARANI KUNZANG, <i>Maharani of Sikkim.</i> Gangtok, Sikkim.
5-5-30	N	Deo, SIR PRATAP CHANDRA BHANJ, K.C.I.E., <i>Maharajah, Ruler of Mayurbhanj State.</i> P.O. Baripada, Mayurbhanj, B.N.R.
5-11-34	R	Dey, MUKUL, A.R.C.A. (LOND.), M.C.S.E. (U.S.A.), F.R.S.A., etc., <i>Principal, Govt. School of Art; Officer in charge, Art Section Keeper of Govt. Art Gallery; Trustee, Indian Museum.</i> 28, Chowringhee, Calcutta.
4-5-10	L	Dhavlé, THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., <i>Judge, Patna High Court.</i> Patna.
4-8-20	N	Dikshit, KASHINATH NARAYAN, M.A. c/o The Office of the Director-General of Archaeology, New Delhi.
5-1-98	R	Dods, WILLIAM KANE, <i>Agent, Hongkong and Shanghai Banking Corporation.</i> 6, Minto Park, Alipur, Calcutta.
2-2-31	A	Douglas, GORDON WATSON, B.Sc., D.L.M., <i>State Chemist to the Government of Bhopal.</i> State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey, FREDERICK. "Ballygunge", Cooden Drive, Bexhill-on-Sea, Sussex, England.
7-11-32	R	Driver, DARAB CURSETJI, M.A. (CANTAB.), <i>Barrister-at-Law, Constituted Attorney to Messrs. Tata & Sons, Ltd., Managing Agents for The Tata Iron & Steel Co., Ltd.</i> 71/73, Park Street, Calcutta.
7-5-34	R	Duncan, PERCIVAL CAIRNCROSS, <i>Mercantile Assistant with Messrs. George Henderson & Co., Ltd.</i> 101/1, Clive Street, Calcutta.
1-7-29	A	Dunn, JOHN ALEXANDER, D.Sc., D.I.C., F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
2-1-33	N	Dutch, ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., <i>District Magistrate.</i> Noakhali.
3-7-33	A	Dutt, GURU SADAY, <i>Barrister-at-Law,</i> I.C.S. 12, Loudon Street, Calcutta.
30-9-35	R	Dutt, MOHENDRA NATH, L.E., <i>Consulting Engineer.</i> 12, Kailas Bose Lane, Howrah.
5-12-32	R	Dutt, NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), <i>Lecturer, Calcutta University.</i> 91-1B, Manicktollah Street, Calcutta.
5-3-28	A	Eberl, OTTO, DR. JUR., <i>Late Vice-Consul for Germany.</i> 2, Store Road, Ballygunge, Calcutta.
4-11-29	R	Edwards, L. BROOKE, <i>Manager in India, The Baldwin Loco. Works of Philadelphia, U.S.A.</i> 5, Dalhousie Square, Calcutta.
5-1-31	L	Evans, PERCY, B.A. (CANTAB.), F.G.S., <i>Geologist.</i> c/o The Burma Oil Co., Digboi, Assam.
6-2-28.	L	Ezra, SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-12-29	N	Fawcus, LOUIS REGINALD, B.A. (CANTAB.), <i>Indian Civil Service, Magistrate and Collector.</i> Dacca.

Date of Election.		
3-8-04	R	*Fermor, SIR LEWIS LEIGH, KT., O.B.E., M.INST.M.M., D.SC., A.R.S.M., F.G.S., F.R.S., F.A.S.B., <i>Director, Geological Survey of India</i> , 27, Chowringhee, Calcutta.
31-10-06	F	Finlow, ROBERT STEEL, C.I.E., B.SC., F.I.C., <i>Late Director of Agriculture, Bengal</i> . c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.
4-1-26	F	Fleming, ANDREW. Post Box No. 2436, Johannesburg, S. Africa.
5-11-13	R	Fox, CYRIL S., D.SC. (BIRM.), M.I.M.E., F.G.S. <i>Geological Survey of India</i> , 27, Chowringhee, Calcutta.
2-4-19	A	Friel, RALPH, I.C.S., B.A., B SC. (DUBLIN), J.P., <i>Deputy Commissioner, Assam</i> . Silchar, Assam.
7-3-27	F	Fukushima, NAOSHIRO. 33, Hikawacho, Akasaka, Tokyo, Japan.
5-11-28	R	Galstaun, JOHN CARAPIET, O.B.E., <i>Merchant and Landholder</i> . 234/4, Lower Circular Road, Calcutta.
1-11-26	R	Galstaun, SHANAZAN, M.A., D.M.R.E., M.R.C.S., L.B.C.P., <i>Medical Practitioner, Radiologist, Medical College Hospital</i> . 39, Theatre Road, Calcutta.
6-10-09	R	*Gangoly, ORDHENDRA COOMAR, B.A., F.A.S.B. 2, Asutosh Mukherjee Road, Calcutta.
5-11-34	R	Gee, EDWARD ROWLAND, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-1-33	R	George, JAMES, B.A. (CANTAB.), I.C.S., <i>Special Officer, Political Department, Govt. of Bengal</i> . United Service Club, Calcutta.
6-2-33	L	Ghatak, JYOTISH CHANDRA, M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, <i>Professor</i> . 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.
7-5-28	R	Ghosal, UPENDRA NATH, M.A., PH.D., <i>Professor of History, Presidency College</i> . 12, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose, BIMAL CHANDRA, <i>Barrister-at-Law</i> . 27/1, Harish Mukherjee Road, Calcutta.
1-4-20	R	Ghose, DEB PROSONNO, <i>Zemindar</i> . 75, Beadon Street, Calcutta.
7-1-20	R	Ghose, THE HON'BLE MR. JUSTICE MOHIM CHANDRA, B.A. (CAL.), M.A. (CANTAB.), I.C.S., <i>Barrister-at-Law (Inner Temple), Judge, High Court</i> . 4A, Little Russell Street, Calcutta.
3-12-24	R	Ghose, SUSHIL CHANDRA, B.A., <i>Deputy Magistrate</i> . 1, Sikdarbagan Street, Calcutta.
2-4-24	R	Ghosh, K., D.T.M., D.P.H. (CANTAB.), L.M.S., <i>Medical Practitioner</i> . 45, Creek Row, Calcutta.
7-3-27	R	Ghosh, PHANINDRA NATH, M.A., PH.D., SC.D. (PADUA), F.INST.P., <i>Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta</i> . 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh, TARAPADA, <i>Zemindar</i> . 14, Paddapukur Street, Kidderpore, Calcutta.
1-2-26	R	Ghuznavi, SIR ABDUL HALIM, KT., M.L.A., <i>Zemindar</i> . 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi, ISKANDER S. K., <i>Zemindar and Member, Advisory Board of Industries, Government of Bengal</i> . 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.

Date of Election.		
1-2-26	R	Ghuznavi, ALHADJ SIR ABDELKERIM ABU AHMED KHAN, KT., M.L.C., <i>Zemindar of Dilduar</i> . 45, Jhowtolla Road, Calcutta (and) North House, Dilduar, Mymensingh.
3-12-34	R	Gladstone, JOHN, <i>Assistant, Messrs. Gillanders Arbuthnot & Co., Ltd.</i> 8, Clive Street, Calcutta.
5-3-28	R	Goopu, DWIJENDRA NATH, <i>Medical Practitioner and Landholder</i> . 5, Middleton Street, Calcutta.
7-9-10	N	*Gravelly, FREDERIC HENRY, D.S.C., F.A.S.B. Museum House, Egmore, Madras.
5-12-00	L	Grieve, JAMES WYNTHAM ALLEYNE. o/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-3-35	R	Groth, EDWARD M., <i>American Consul</i> . American Consulate General, 9, Esplanade Mansions, Esplanade, Calcutta.
4-2-25	R	Guha, B. S., M.A., PH.D. (HARVARD). Indian Museum, Calcutta.
6-12-26	R	Guha, THE HON'BLE MR. JUSTICE SURENDRANATH, RAI BAHADUR, <i>Judge, High Court</i> . 20, Lansdowne Road, Calcutta.
7-5-28	R	Gupta, J. N., M.B.E., C.I.E., I.C.S., <i>Late Member, Board of Revenue, Government of Bengal</i> . 5, Riverside, Barrackpore.
5-3-19	N	Gupta, SIVAPRASAD. Seva Upavana, Benares City.
5-8-15	R	Gurner, CYRIL WALTER, B.A. (OXON), I.C.S., <i>Chairman, Improvement Trust</i> . 4, Theatre Road, Calcutta.
6-3-01	N	Habib-ur-RAHMAN, THE HON'BLE NAWAB SADR YAR JUNG, MAULANA, <i>Rais, Bhikanpur</i> . Habibganj, District Aligarh.
5-2-34	R	Haldar, BHARATI VIKAS, M.A., B.L., <i>Advocate, High Court</i> . 47, Haldarpara Road, Kalighat, Calcutta.
6-1-30	R	Haldar, SUDHINDRA KUMAR, M.A., I.C.S., <i>Commissioner of Excise and Salt, Bengal</i> . 241, Lower Circular Road, Calcutta.
6-1-30	F	Hamilton, SIR DANIEL MACKINNON, KT., <i>Retired Partner, Messrs. Mackinnon Mackenzie & Co.</i> Balmacara, Rosshire, Scotland.
2-4-24	R	Haq, M. MAHFUZ-UL, M.A., <i>Lecturer, Presidency College</i> . 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	R	Harley, ALEXANDER HAMILTON, M.A., I.E.S., <i>Principal, Islamia College</i> . 19, Wellesley Square, Calcutta.
1-2-26	F	Harris, H. G. o/o Messrs. Martin & Harris, Ltd., Rowlette Buildings, 17, Prinsep Street, Calcutta.
2-4-28	R	Harris, LAWRENCE ERNEST, <i>Engineer, Manager for India, Messrs. Sulzer Brothers</i> . 4, Lyons Range, Calcutta.
5-11-19	N	Hemraj, MANYABARA RAJ GURU, C.I.E., PANDITJI. Dhokatoke, Nepal.
3-2-30	F	Henderson, ALEXANDER GAVIN, B.A. (OXON). Buscot Park, Faringdon, Berks, England.
6-8-28	R	Heron, A. M., D.S.C. (EDIN.), F.G.S., F.R.G.S., F.R.S.E., <i>Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-6-11	L	*Hidāyat Hosain, MUHAMMAD, SHAMS 'UL-'ULAMA, KHAN BAHADUR, PH.D., F.A.S.B. 96/2c, Collin Street, Calcutta.
1-2-26	A	Hingston, H., LT.-COL., I.M.S., M.D., <i>Late Surgeon to H.E. the Governor of Bengal</i> . England.
4-11-35	R	Hirtzel, MICHAEL ARTHUR FREDERICK, B.A. (TRINITY COLLEGE, OXFORD), <i>Mercantile Assistant, Macneill & Co.</i> 2, Fairlie Place, Calcutta.

Date of Election.		
4-6-28	N	Hobart, ROBERT CHARLES, I.C.S. Commissioner's House, Gorakhpur, U.P.
1-4-25	R	Hobbs, HENRY, MAJOR, V.D., Merchant. 9, Old Court House Street, Calcutta.
1-2-32	R	Holme, JAMES WILLIAM, M.A., I.E.S. (RETD.), Principal, La Martinière. 11, Loudon Street, Calcutta.
7-3-27	N	Hopkinson, ARTHUR JOHN, I.C.S., Secretary to the Government, N.-W.F. Province. Peshawar, N.-W.F.P.
2-11-21	L	*Hora, SUNDER LAL, D SC., F.Z.S., F.R.S.E., F.A.S.B. Zoological Survey of India, Indian Museum, Calcutta.
5-11-34	R	Hosain, PRINCE AFSAR'UL MULUK MIRZA MUHAMMED AKRAM, BAHADUR, Political Pensioner and Landholder. Afsar Manzil, 20, Ballygunge Circular Road, Calcutta.
6-6-23	L	*Howard, SIR ALBERT, KT., C.I.E., M.A., F.A.S.B., Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India. 14, Liskeard Gardens, Blackheath, London, S.E. 3.
2-9-35	N	Howland, FELIX, Professor of English. Habibia College, Kabul, Afghanistan.
7-3-32	N	Hughes, ARTHUR, B.A. (MANCHESTER), Indian Civil Service, Magistrate and Collector, Murshidabad, Bengal.
6-8-34	N	Husain, SYED ATA, M.A. (CAL.), C.E. (ROORKEE), RETIRED Superintending Engineer, Hyderabad State. Mohalla Lingumpally, Hyderabad, Deccan.
6-6-23	N	*Hutton, J. H., C.I.E., I.C.S., M.A., D.SC., F.A.S.B. Nowgong, Assam.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe. Hants, England.
4-3-35	R	Jack, THE HON'BLE MR. JUSTICE ROBERT ERNEST, I.C.S., Judge, High Court. United Service Club, Calcutta.
4-2-35	N	Jaffar, S. M., B.A., Author, Translator to the Judicial Commissioner, North-West Frontier Province. 1508, Khudadad Street, Peshawar City, N.-W.F.P.
6-6-27	L	Jain, BALDEODAS, Merchant and Banker. 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHEOTE LAL, M.R.A.S. 25, Central Avenue North, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Devashrama, Arrah.
6-8-28	N	Jaitly, P. L., Electrical Engineer, Merchant. 15, Canning Road, Allahabad.
1-11-26	F	Jameson, THOMAS BLANDFORD, MAJOR, M.C., M.A. (CANTAB.), I.C.S. Claremont, Kingskerswell, S. Devon, England.
4-11-29	F	Jarvis, ROBERT Y. The Department of State, Washington, District Columbia, U.S.A.
6-5-25	R	Jatia, SIR ONKAR MULL, KT., O.B.E., Merchant. 2, Rupchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN, D.SC. (SHEFFIELD), I.E.S., Principal, David Hare Training College. United Service Club, Calcutta.
5-4-26	A	Jones, THORNTON, Solicitor. c/o Messrs. Morgan & Co., 1, Hastings Street, Calcutta.
1-11-11	L	Kamaluddin AHMAD, SHAMS-UL-'ULAMĀ, M.A., I.E.S., Principal, Krishnagar College. Krishnagar, Nadia.
5-3-24	R	Kanjilal, M. N., M.A. (CAL.), LL.B. (CANTAB.), Barrister-at-Law. 17, Loudon Street, Calcutta.

Date of Election.		
3-12-34	N	Kapur, CHOONI LAL. Makermal Colliery, Mari Indus, Punjab.
6-11-33	R	Kavyatirtha, RAM DHAN, <i>Pundit</i> . 55, Surendranath Banerjee Road, Calcutta.
4-5-10	L	*Kemp, STANLEY W., B.A., D.SC., F.R.S., F.A.S.B. 'Discovery Expedition,' 52, Queen Anne Chambers, Dean Farrar Street, London, S.W. 1.
2-5-30	N	Kenny, DICK EDWARD COURTENAY, LT.-COL., I.A., <i>Deputy Commissioner, Tavoy</i> . Burma.
2-12-29	N	Khan, MATIUR RAHMAN, <i>Khas Mahal Circle Officer</i> . 27, Panchbhaighat, Dacca.
3-12-24	R	Khan, REZAUR RAHMAN, M.A., B.L., <i>Deputy President, Bengal Legislative Council</i> . 28, Convent Road, Entally, Calcutta.
6-5-25	R	Khanna, VINAYEK LAL, M.R.A.S., <i>Merchant</i> . 137F, Balaram Dey Street, Beadon Street P.O., Calcutta.
2-8-26	R	Khettry, BENIMADHO, <i>Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants</i> . 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (Ko-Shi), <i>Principal, College Department of Risscho University</i> . Osaki Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER, B.SC., <i>Inspector of Mines in India</i> . Dhanbad, E.I.R.
4-11-35	R	Klebe, ANINA, née BRANDT, PH.D. (GREIFSWALD, GERMANY), <i>Psychologist</i> . 14/1, Sudder Street, Calcutta.
7-7-20	R	*Knowles, ROBERT, C.I.E., M.B.C.S., L.R.C.P., B.A. (CANTAB.), F.A.S.B., LT.-COL., I.M.S. "Holmscroft", 2/1, Harrington Street, Calcutta.
6-5-25	F	Koester, DR. HANS, <i>Legations Sekretär</i> . Auswaertiges Amt, Abteilung W., Berlin W. 8, Wilhelmstrasse 75.
3-2-30	R	Korni, MICHAEL ALEXANDROWITZ (DR.), <i>Architect and Engineer, Messrs. Bird & Co.</i> Chartered Bank Buildings, Clive Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.), PH.D., <i>Lecturer in Ancient Indian History (Fine Arts), Calcutta University</i> . 57, Ballygunge Circular Road, Calcutta.
3-9-34	R	Krishnan, K. S., D.Sc., <i>Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science</i> . 210, Bowbazar Street, Calcutta.
6-11-33	A	Krishnan, M. S., M.A. (MADRAS), PH.D. (LOND.), A.B.C.S., D.I.C. (LOND.), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-4-28	R	Kumar, KUMAR KRISHNA, M.A., B.L., <i>Zemindar and Banker</i> . 31 & 31-1, Burtolla Street, Calcutta.
7-3-23	R	Labey, GEORGE THOMAS, M.C., <i>Bengal Pilot Service</i> . United Service Club, Calcutta.
4-2-35	R	Lal, RAM BIHARI, M.B., B.S., D.P.H., D.T.M. & H., D.B., <i>Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health</i> . 21, Chittaranjan Avenue, Calcutta.
6-3-89	L	*La Touche, THOMAS HENRY DIGGES, M.A., F.G.S., F.A.S.B. 230, Hills Road, Cambridge, England.
5-2-34	R	Law, BHABANI CHURN, <i>Merchant, Zamindar and Artist</i> . 223, Cornwallis Street, Calcutta.
5-8-14	L	Law, BIMALA CHARAN, M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.

Date of Election.		
1-2-11	R	Law, NARENDRA NATH, M.A., B.L., PH.D. 96, Amherst Street, Calcutta.
4-2-35	R	Law, PARBUTTY CHURN. 223, Cornwallis Street, Calcutta.
1-7-14	R	Law, SATYA CHURN, M.A., B.L., PH.D., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
3-9-34	R	Ledrus, MICHAEL, <i>Professor in Divinity, Lecturer at the Gregorian University, Rome; Member of the Society of Jesus, Editor, 'The New Review'.</i> St. Xavier's College, 30, Park Street, Calcutta.
7-6-26	R	Leemon, RICHARD DENNIS, <i>Merchant.</i> c/o Messrs. Martin & Harris Ltd., 17, Prinsep Street, Calcutta.
3-5-11	A	Lomax, C. E., M.A. La Martinière, 11, Loudon Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN, K.C., <i>Barrister-at-Law, Judge, High Court.</i> 227/1, Lower Circular Road, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM, I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID, LT.-COL., I.M.S., M.D., B.CH., B.A.O., M.B.O.P., F.A.S.B. c/o The Standard Bank of S. Africa, Cradock, Cape Province, S. Africa.
1-3-26	R	McKay, JOHN WALLACE. c/o Messrs. Duncan Bros. & Co., Ltd., 101, Clive Street, Calcutta.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS, K.C.S.I., K.C.I.E., F.A.S.B. 39, Egerton Terrace, London, S.W. 3.
5-3-24	R	McPherson, JAMES. c/o Messrs. Begg Dunlop & Co., Ltd., 2, Hare Street, Calcutta.
7-6-16	N	Mahajan, SURYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C., M.A., B.SC., I.E.S., <i>Professor, Presidency College.</i> 210, Cornwallis Street, Calcutta.
1-3-11	R	Mahtab, SIR BIJAY CHAND, K.C.S.I., I.O.M., MAHARAJA-DHIRAJA BAHADUR OF BURDWAN. 6, Alipur Lane, Calcutta.
3-2-30	N	Mahtab, UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan.</i> The Palace, Burdwan.
6-2-24	R	Mahindra, K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.
9-6-20	R	Majumdar, NANI GOPAL, M.A. <i>Archæological Survey of India, Indian Museum, Calcutta.</i>
2-2-16	R	Majumdar, NARENDRA KUMAR, M.A., <i>Professor, Calcutta University.</i> 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar, RAMESH CHANDRA, M.A. PH.D., <i>Professor, Dacca University.</i> Ramna, Dacca.
5-5-30	A	Mallam, G. L., CAPTAIN, I.A., <i>Census Superintendent.</i> Peshawar, N.-W.F.P.
7-5-28	R	Mallik, SATYENDRA CHANDRA, M.A., I.C.S. (REID.). 7-3, Burdwan Road, Alipur, Calcutta.
4-11-29	R	Mallya, BANTWAL GANAPATEY, MAJOR, I.M.S., F.R.C.S.E. <i>Civil Surgeon, Howrah</i>
6-2-18	L	*Manen, JOHAN VAN, C.I.E., <i>Officier de l'Instruction Publique,</i> F.A.S.B. 6, Temple Chambers, 6, Old Post Office Street, Calcutta.
5-6-01	F	Mann, HAROLD HART, D.SC., M.SC., F.I.C., F.L.S. <i>Woburn Experimental Station, Aspley Guise, Bedfordshire, England.</i>
6-1-30	N	Martin, M. F. C., CAPT., R.E. c/o The Garrison Engineer, Mingladon, Burma.

Date of Election.	
5-5-30 A	Matthias, OWEN GARDINER, <i>Managing Director, Messrs. Smith Stanistreet & Co., Ltd. Stanistreet House, 18, Convent Road, Entally, Calcutta.</i>
2-1-28 N	Mello, FROILANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India, Professor of Parasitology. Nova Goa.</i>
5-11-84 L	*Middlemiss, CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.S., F.A.S.B. <i>Aviemore, Crowborough, Sussex, England.</i>
1-2-26 N	*Mills, JAMES PHILIP, I.C.S., M.A. (OXON), J.P., F.A.S.B., <i>Deputy Commissioner. Kohima, Naga Hills, Assam.</i>
5-6-12 N	Misra, CHAMPA RAM, B.A., <i>Rai Bahadur, Pandit, Diwan, Chhatarpur State. Bundelkhand, C.I.</i>
2-4-24 R	Mitra, J. C., M.A., B.L., <i>Retired Accountant-General, Bengal. 1, Abinash Mitter Lane, Calcutta.</i>
5-3-24 R	Mitter, THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law, Member, Bengal Executive Council. 5, Outram Street, Calcutta.</i>
5-3-24 R	Mitter, THE HON'BLE MR. JUSTICE DWARKANATH, M.A., D.L., <i>Judge, High Court. 12, Theatre Road, Calcutta.</i>
4-3-29 R	Mitter, HIRANYA KUMAR, <i>Landholder. 1, Jhamapukur Lane, Amherst Street P.O., Calcutta.</i>
5-4-26 R	Mitter, KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor, Presidency College (Retired). 72/1, Bondel Road, Ballygunge, Calcutta.</i>
30-9-35 R	Mitter, SUDHIR CHUNDER, <i>Barrister-at-Law. 19, Camac Street, Calcutta.</i>
1-11-26 R	Modi, JAL R. K., B.A. 4, <i>Camac Street, Calcutta.</i>
5-3-34 R	Modi, JEHAIR JEEVANJI JAMSHEDJI, <i>Merchant. 5, Dhurumtollah Street, Calcutta.</i>
6-8-24 N	Moloney, WILLIAM J., <i>General Manager of Reuter's for the East. c/o 26/7, Dalhousie Square, Calcutta.</i>
5-11-24 R	Mookerjee, B. N., B.A. (CANTAB.), <i>Engineer. 12, Mission Row, Calcutta.</i>
3 5-98 L	Mookerjee, SIR RAJENDRA NATH, K.C.I.E., K.C.V.O., HON. F.A.S.B. 7, <i>Harington Street, Calcutta.</i>
2-7-24 R	Mookerjee, SYAMA PRASAD, M.A., B.L., <i>Vakil, High Court, Vice-Chancellor, Calcutta University. 77, Russa Road North, Calcutta.</i>
5-6-33 A	Morris, C. J., <i>Captain, Indian Army, 2/3rd Q.A.O. Gurkha Rifles. Razmak, Waziristan.</i>
2-5-32 F	Muhammad, MIRZA, KHAN BAHADUR, C.I.E., LL.B., M.B.A.S., <i>Advocate. Strand Road, Basrah.</i>
2-2-21 R	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., DOCTEUR-ES-LETTRES (PARIS). 3/1A, <i>Raja Rajabullav Street, Calcutta.</i>
5-12-27 R	Mukerjee, SUSIL KUMAR, F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals. 1/1, Wood Street, Calcutta.</i>
6-2-28 R	Mukerji, THE HON'BLE MR. JUSTICE MANMATHA NATH, KT., M.A., B.L., <i>Judge, High Court. 8/1, Harsi Street, Calcutta.</i>
3-3-30 N	Mukharji, ISAN CHANDRA, <i>Rai Bahadur, Tazimi Sardar and Retired Member of Jaipur Council. Jaipur, Rajputana.</i>
7-11-27 N	Mukherjee, DEVAPROSANNA, M.A., B.L., <i>Zemindar. Burdwan.</i>
2-8-26 R	Mukherjee, JNANENDRA NATH, D.SC. (LONDON), F.C.S. (LONDON), <i>Fellow of the Indian Chemical Society; Khaira Professor of Chemistry, University of Calcutta. 92, Upper Circular Road, Calcutta.</i>

Date of Election.		
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR, M.A., <i>Research Assistant, Calcutta University.</i> 27, Govinda Ghosal Lane, Bhawanipore, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD, M.A., B.L. 77, Russa Road North, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR, Director, Raja D. N. Mullick & Sons, Ltd. Colootola Rajbati, Chittaranjan Avenue, Calcutta.
6-8-34	R	Mullick, MANICK LALL, Landholder; Honorary Magistrate, Sealdah. 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR, Zemindar and Landholder. 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLORIAN OLIPHANT, A.I.M.M., F.G.S., Mining Geologist and Engineer. Tatanagar, B.N.Ry.
1-6-21	N	Muzammil-Ullah Khan, THE HON'BLE NAWAB SIR MOHD., KHAN BAHADUR, K.C.I.E., O.B.E., K.B., LL.D., Rais. Bhikampur, Dt. Aligarh, U.P.
7-3-06	N	Nahar, PURAN CHAND, RAI BAHADUR, Solicitor. c/o 48, Indian Mirror Street, Calcutta.
5-12-27	L	Namgyal, H.H. MAHARAJA SIR TASHI, K.C.I.E., Maharaja of Sikkim. Gangtok, Sikkim.
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA, M.A., M.L.O., Zemindar. Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HIRDE, M.A., B.T., Professor of History, Morris College. Nagpur, C.P.
5-2-34	N	Nariman, RUSTOM, K., M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), Professor of Engineering, Osmania University. 'Gulistan', Sappers Lines, Secunderabad, Deccan.
5-3-28	R	Neogi, PANCHANAN, M.A., PH.D., I.E.S., Professor of Chemistry, Presidency College. 21, Kundu Lane, Belgachia, Calcutta.
3 11-30	A	Newman, CARL DAMIEN, M.B.B.S., D.T.M. & H., District Medical Officer, E.B.Ry. 2, Belvedere Park, Alipur, Calcutta.
3-12-24	N	Newman, CHAS F., F.R.G.S., M.R.S.T., M.C.P. Ramnagar, Benares.
7-4-15	F	Ohtani, COUNT KOZUI. San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala, E. S. 52, Chowringhee, Calcutta.
3-9-34	R	Ow-Wachendorf, BARON W., German Consul General, Minister Plenipotentiary. German Consulate General, 26, Lee Road, Calcutta.
5-12-23	N	Pande, SHIVA BANDHAN, Retired Tahsildar and Zemindar. Ramaipatti, Mirzapur, U.P.
5-4-26	R	Parker, RICHARD HENRY, I.C.S., Late Scholar of St. John's College, Oxford; Workmen's Compensation Commissioner. Writer's Building, Calcutta.
4-11-29	F	Parry, NEVILL EDWARD, I.C.S. (RETD.). Coombe Fishaere House, Ipplafen, Newton Abbot, S. Devon, England.
5-2-34	R	Pasricha, CHIRANJI LAL, M.A., M.B., B.CHIB. (CANTAB.), M.R.O.S. (ENG.), L.R.C.P. (LOND.), CAPTAIN, I.M.S., Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene. 11, Rowland Road, Calcutta.

Date of Election.		
6-5-29	F	Pawsey, C. R., <i>Indian Civil Service</i> . c/o The Lloyds Bank, 6, Pall Mall, London, S.W. 1.
6-6-88	L	Pennell, AUBRAY PERCIVAL, B.A., <i>Barrister-at-Law</i> . Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival, FREDERICK GEORGE, PH.D. (LOND.), F.G.S., <i>General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co.</i> Jamshedpur.
1-4-25	R	Perier, FERDINAND, S.J., <i>Most Reverend the Archbishop of Calcutta</i> . 32, Park Street, Calcutta.
7-4-30	A	Pessein, REV. J. F., <i>Catholic Missionary, Superior of the Catholic Missionary Sanatorium</i> . Wellington, Nilgiris.
3-2-30	A	Pettigrew, REV. WILLIAM, <i>Missionary</i> . American Baptist Foreign Mission Society, P.O. Kangpokpi, Manipur, Assam.
6-4-31	N	Prasad, SHARDA. c/o Messrs. Gopinath Lal Behari, Satna.
3-4-18	L	*Prashad, BAINI, D.SC., F.Z.S., F.R.S.E., F.A.S.B., <i>Director, Zoological Survey of India</i> . Indian Museum, Calcutta.
3-8-25	N	Pruthi, HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), <i>Imperial Entomologist, Imperial Institute of Agricultural Research</i> . Pusa, Darbhanga.
3-12-24	R	Pushong, E. S., M.D., L.S.A., <i>Medical Practitioner</i> . 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman, SHAH KALIMUR, M.A., <i>Lecturer in Arabic and Persian, Calcutta University</i> . 51, Baitakhana Road, Calcutta.
6-8-34	R	Rao, U. SHANKER, <i>Bengal Pilot Service</i> . 83, Chowringhee, Calcutta.
1-2-26	N	Rao, Y. RAMACHANDRA, RAO SAHIB, M.A., F.E.S., <i>Locust Research Entomologist</i> . McLeod Road, Karachi.
2-7-24	N	Ray, ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	R	Ray, HEM CHANDRA, M.A., PH.D. (LONDON). P. 39A, Manicktollah Spur, Calcutta.
5-1-21	N	Ray, JAGADISNATH, MAHARAJA, <i>Maharaja of Dinajpore</i> . Dinajpore.
5-3-90	R	*Ray, SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.A.S.B. University College of Science, 92, Upper Circular Road, Calcutta.
5-11-28	L	Reinhart, WERNER, <i>Merchant</i> . c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.
6-2-28	R	Reneman, NICO., Kian Gwan Co. (India), Ltd., 4, Lyons Range, Calcutta.
2-4-24	F	Richards, F. J., I.C.S. 6, Lexham Gardens, London, W. 8.
5-2-34	R	Richter, HERBERT, DR. JUR., <i>Vice-Consul for Germany</i> . 28, Lee Road, Calcutta.
1-4-29	A	Rizvi, SYED HAMID HUSAIN, <i>Excise Sub-Inspector</i> . Mohalla Sanechri, Near Muejid of Munshi Sk. Ghassu, Saugor, C.P.
3-12-24	L	Roerich, GEORGE NICHOLAS, M.A., M.R.A.S., <i>Orientalist</i> . 310, Riverside Drive, New York, U.S.A. ("Urusvati" Naggar, Kulu, Punjab).
2-7-28	L	Roerich, NICHOLAS, <i>Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter</i> . 310, Riverside Drive, New York, U.S.A.
3-12-24	N	Rogers, T. E., <i>Tea Planter</i> . The Tyroom Tea Co., Ltd., Kharikatia, Assam.

Date of Election		
4-12-01	F	*Ross, SIR EDWARD DENISON, KT., C.I.E., PH.D., F.A.S.B., <i>Director, School of Oriental Studies.</i> Finsbury Circus, London, E.C. 2.
5-6-33	R	Rossetti, FELIX FRANCOIS LEO, <i>Secretary, Y.M.C.A.</i> 42, Corporation Street, Calcutta.
6-12-26	R	Roy, A. K., <i>Barrister-at-Law, Advocate-General, Bengal.</i> 3, Upper Wood Street, P.O. Theatre Road, Calcutta.
1-12-30	N	Roy, KUMAR KAMALRANJAN, B.A., <i>Zemindar.</i> Kashmir-bazar Post, Dt. Murshidabad.
4-3-35	R	Roy, SAILESWAR SINGH, <i>Landholder.</i> 15, Lansdowne Road, Calcutta.
6-8-24	N	Roy-Chowdhury, BRAJENDRA KISHORE, <i>Zemindar.</i> (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.
7-5-28	N	*Saha, MEGH NAD, D.SC., F.R.S., F.A.S.B., <i>Professor of Physics, University of Allahabad.</i> Katra, Allahabad.
5-11-24	N	*Sahni, B., M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.A.S.B., <i>Professor of Botany.</i> The University, Lucknow.
5-2-34	L	Sale, HAROLD MONTAGUF, M.A., F.G.S., <i>Geologist, Burmah Oil Co., Ltd.</i> c/o Burmah Oil Co., Ltd., Digboi, Assam.
3-12-24	R	Sarkar, C. K., C.E., <i>Engineer and Architect.</i> 10, Hastings Street, Calcutta.
4-2-35	R	Sarkar, NALINI RANJAN. Hindusthan Buildings, Corporation Street, Calcutta.
4-2-35	N	Sayeeduddin, MOHAMMED, B.SC., M.A. (EDIN.), F.R.M.S., F.F.S.C., <i>Professor of Botany, Osmania University.</i> Hyderabad, Deccan.
6-3-33	R	Seal, SATIS CHANDRA, M.A., B.L., <i>Honorary Secretary, Indian Research Institute.</i> 55, Upper Chitpore Road, Calcutta.
5-2-34	R	Selzam, EDWART VON, <i>German Diplomatic Service, Consulate-General for Germany.</i> 26, Leo Road, Calcutta.
1-4-25	R	Sen, BENOY CHANDRA, M.A. 'Rupeswar', Diamond Harbour Road, Behala.
3-12-24	R	Sen, H. K., M.A., D.SC. (LONDON), D.I.C., <i>Professor of Chemistry, University College of Science.</i> 92, Upper Circular Road, Calcutta.
5-12-23	L	Sen, LAKSHMAN, H.H. RAJA OF SUKET. Suket State, Punjab.
1-4-29	R	Sen-Gupta, NARES CHANDRA, M.A., D.L., <i>Advocate, High Court.</i> 36, Girish Mukherjee Road, Bhawanipore, Calcutta.
5-4-26	R	Senior-White, RONALD, F.F.S., F.R.S.T.M. & H. <i>Malariaologist.</i> 5, Godfrey Mansions, Garden Reach, Calcutta.
1-12-97	R	Seth, MESROVB JACOB, M.R.A.S., M.S.A., F.R.S.A., <i>Examiner in Classical Armenian to the Calcutta University.</i> 9, Marsden Street, Upper Flat, Calcutta.
5-7-11	L	*Sewell, ROBERT BERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.A.S.B., LT.-COL., I.M.S., <i>Late Director, Zoological Survey of India.</i> 18, Barrow Road, Cambridge, England.
2-11-25	A	Sharif, MOHAMMAD, D.SC., F.R.M.S., F.L.S., <i>Lecturer in Zoology.</i> Muslim University, Aligarh.
6-5-29	N	Sharma, SRI RAM, M.A., M.R.A.S., M.A.O.S., <i>Professor of History.</i> D.A.V. College, Lahore.

Date of Election.		
5-8-35	R	Shattock, JOHN SWITHIN HARVEY, B.A. (Oxon.), I.C.S., <i>Assistant Private Secretary to His Excellency the Governor of Bengal.</i> Government House, Calcutta.
2-5-23	N	Shebbeare, E. O., <i>Conservator of Forests.</i> Darjeeling.
6-1-09	N	Shirreff, ALEXANDER GRIERSON, B.A., I.C.S. <i>Commissioner,</i> Gorakhpur. U.P.
4-1-26	N	Shortt, H. E., LT.-COL., I.M.S., <i>Director, King's Institute,</i> Guindy. Madras.
5-1-31	N	Shukla, JAGANNATH PRASAD. Trans Gomti Outram Road, near Badshahnagar Railway Station, Lucknow.
6-2-28	L	Shumser JUNG BAHADUR RANA, SIR KAISER, K.B.E., SUPRADIPTA MANYAVARA, LIEUT.-GENERAL, <i>Nepalese Army.</i> Kaiser Mahal, Kathmandu, Nepal.
5-2-02	N	Shyam Lal, LALA, M.A., LL.B. Nawabganj, Cawnpore, U.P.
4-11-29	R	Siddiqi, MOHAMMAD ZUBAYR, M.A., PH.D., <i>Sir Asutosh Professor of Islamic Culture, Calcutta University.</i> P. 274, Bright Street, Park Circus, Calcutta.
5-3-13	L	*Simonsen, JOHN LIONEL, D.SC., F.I.C., F.A.S.B. University College of North Wales, Bangor, North Wales.
6-2-18	N	Singh, MANYABARA BADA KAJI MARICHI MAN, PANDITI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	F	Singh, JAIPAL, M.A. (<i>Modern Greats</i>), <i>St. John's College, Oxford University.</i> Achimota College, Accra, West Africa.
5-3-34	L	Singh, HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR, K.C.I.E. Darbhanga.
2-1-33	N	Singh, RUDRA PERTAB, RAO BAHADUR, <i>Proprietor, Sonbarsa Raj.</i> Sonbarsa P.O., District Bhagalpore.
4-2-35	N	Singh, SARABJIT, M.A., B.L. P.O. Imphal, Manipur State.
3-6-35	R	Singhanla, RAGHUNATH PRASAD, VIDYABHUHAN-VISARAD, <i>Secretary, Rajasthan Research Society.</i> 27, Baranoshi Ghose Street, Simla, Calcutta.
5-9-12	R	Singhi, BAHADUR SINGH. (Azimganj, Murshidabad.) 48, Gariahat Road, Calcutta.
7-8-33	N	Sinh, RAGHUBIR, RAJKUMAR, M.A., LL.B., <i>Heir-Apparent of Sitamau State.</i> Raghbir Niwas, Sitamau, C.I.
7-5-28	F	Sinha, LORD, OF RAIPUR. Queen Anne Mansions, St. James' Park, London.
6-6-27	N	Sinha, SHEONANDAN PRASAD, M.B., <i>Assistant Surgeon.</i> Government Hospital, Jamshedpur.
6-2-28	R	Sinha, SUHEID CHANDRA, KUMAR, M.SC. 18, Ananda Lane, P.O. Shambazar, Calcutta.
4-1-26	N	Sinton, J. A., O.B.E., LT.-COL., I.M.S., V.C., <i>Officer-in-Charge, Malaria Bureau.</i> Central Research Institute, Kasauli.
5-7-16	L	Sircar, GANAPATI, VIDYARATNA. 69, Beliaghata Main Road, Calcutta.
5-3-24	N	Sircar, THE HON'BLE SIR NRIPENDRA NATH, K.C.S.I., KT., M.A., B.L., <i>Barrister-at-Law, Law Member, H.E. The Viceroy's Executive Council.</i> New Delhi.
5-3-24	R	Sircar, SIR NIL RATAN, KT., M.A., M.D., <i>Physician.</i> 7, Short Street, Calcutta.
7-11-32	N	Sitling, G. T. The Ong Press, Kalimpong, D.H. Ry.
5-8-29	R	Sommerfeld, ALFRED, <i>Merchant.</i> c/o Mousell & Co., Mercantile Buildings, Lall Bazar, Calcutta.
3 9-34	R	Sondhi, VED PALL, M.SC., F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.

Date of Election.		
7-3-27	R	Stagg, M., LT.-COL., R.E., O.B.E., <i>Master, H.M.'s Mint. 47, Strand Road, Calcutta.</i>
7-3-23	F	Stamp, L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.
4-1-26	N	Stapleton, GRACE (MISS), M.D., B.S. (LONDON). Dufferin Hospital, Delhi.
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., I.E.S., F.A.S.B., <i>Late Director of Public Instruction, Bengal. St. Brelade, Jersey, C.I, England.</i>
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., <i>Educational Commissioner with the Government of India. New Delhi.</i>
6-5-25	R	Staub, MAX, <i>Consul for Switzerland. 100, Clive Street, Calcutta.</i>
1-11-22	A	Strickland-Anderson (Mrs.). 1, Alipur Park, Calcutta.
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., <i>Chief Medical Officer, E.B. Ry., late Vice-Chancellor, Calcutta University. 3, Suhrawardy Avenue, Park Circus, Calcutta.</i>
3-3-20	N	Sundararaj, BUNGURU, M.A., PH.D., <i>Director of Fisheries. Chepauk, Madras.</i>
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, <i>Major-General in the Nepalese Army. Singha Darbar, Kathmandu, Nepal.</i>
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT., MAHARAJA BAHADUR. "Tagore Castle", 12, Prasanna Coomar Tagore Street, Calcutta.
7-11-27	R	Tarkatirtha, BIMALANANDA, <i>Kaviraj, Punditbhusan, Byakaranatirtha. 90/3, Grey Street, Calcutta.</i>
31-8-93	L	Tate, GEORGE PASSMAN. 56, Cantonment, Bareilly, U.P.
2-5-32	R	Thakur, AMARESWAR, M.A., PH.D., <i>Lecturer, Calcutta University, Hon. Secretary, Sanskrit Publication Department, Metropolitan Printing and Publishing House. 29, Sadananda Road, P.O. Kalighat, Calcutta.</i>
2-12-29	A	Thomas, H. W., F.C.S., M.P.S., <i>Senior Partner and Chairman of the Managing Directors, Messrs. Smith Stanistreet & Co. Stanistreet House. 18, Convent Road, Entally, Calcutta.</i>
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.A.S.B. "The Laurels", Glebe Road, Cambridge, England.
4-3-29	A	Travers, SIR WALTER LANCELOT, KT., C.I.E., O.B.E., M.L.C., <i>Tea Planter, Baradighi Tea Estate. Baradighi P.O., B.D.R., Jalpaiguri.</i>
7-5-28	F	Tucci, GIUSEPPE, PH.D., <i>Late Professor of Religions and Philosophy of India and the Far East, University of Rome; Professor of Chinese, University of Naples. Naples, Italy.</i>
5-7-26	A	Tyson, JOHN DAWSON, O.B.E., M.A. (OXON), I.C.S., J.F., <i>Late Private Secretary to H.E. the Governor of Bengal. Government House, Calcutta.</i>
3-9-34	R	Ulser, M. E. M. M., <i>Consul General for Belgium. 9, Pretoria Street, Calcutta.</i>
6-8-28	N	Urchs, OSWALD, M.D. c/o Messrs. Haverro Trading Co., Ltd., Post Box 642, Bombay.
7-3-27	R	Urquhart, REV. W. S., M.A., D.D., D.LITT., <i>Principal, Scottish Church College, and Late Vice-Chancellor, Calcutta University. 3 & 4, Cornwallis Square, Calcutta.</i>

Date of Election.		
4-7-27	N	Vance, R. L., M.B., B.O.E., B.A.O. (DUB.), L.M. (ROT.), MAJOR, I.M.S., <i>Officiating Chief Medical Officer, Western India States Agency</i> . Rajkot, Kathiawar.
7-8-33	R	Vedantatirtha, VANAMALI, M.A., <i>Formerly Professor, Cotton College, Gauhati</i> . 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.
6-6-32	R	Vere-Hodge, Mrs. E. H., <i>Author</i> . 9/4, Middleton Row, Calcutta.
5-7-05	R	Vidyabhushan, AMULYA CHARAN. Vangiya Mahakosha, 5, Jadu Mitter Lane (North), Shambazar, Calcutta.
1-2-32	R	Visser, DR. PH. C., <i>Consul-General for the Netherlands</i> . E-1, Clive Buildings, Clive Street, Calcutta.
6-3-01	L	*Vogel, JEAN PHILIPPE, LITT.D., F.A.S.B. Noordeindsplein, 4a, Lieden, Holland.
27-9-94	L	Vost, WILLIAM, LT.-COL., I.M.S. Leicester Lodge, 1, Medina Villas, Hove, Sussex, England.
6-5-25	R	*Wadia, D. N., M.A., B.SC., F.R.G.S., F.A.S.B., <i>Geological Survey of India</i> . 27, Chowringhee, Calcutta.
5-3-28	A	Waight, HARRY GEORGE, B.A. (OXON. and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge</i> . Burdwan.
2-5-27	A	Watson, SIR ALFRED HENRY, KT., <i>Late Editor, The "Statesman"</i> , Calcutta. England.
2-2-31	A	Wauchope, R. S., O.B.E., A.I.C.E., F.R.A.I., MAJOR, I.A. 8, Park Chambers, 93, Park Street, Calcutta.
6-2-33	N	Wellsted, THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., <i>Mining Engineer</i> . Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	R	West, WILLIAM DIXON, M.A. (CANTAB.), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
1-11-26	R	Westcott, FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), <i>Lord Bishop of Calcutta and Metropolitan of India, Burma and Ceylon</i> Bishop's House, 51, Chowringhee, Calcutta.
19-9-06	L	*Whitehead, RICHARD BERTRAM, F.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams, HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMB), <i>Chaplain of Barrackpore</i> . Barrackpore.
6-2-28	F	Williams, T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts, England.
3-2-34	R	Wilson, HARRY ELLIS CHASLER, M.B., CH.B., D.S., <i>Professor of Biochemistry and Nutrition, All-India Institute of Hygiene and Public Health</i> . U.S. Club, Calcutta.
7-3-06	L	*Woolner, ALFRED COOPER, C.I.E., M.A., D.LITT. (Hon.), F.A.S.B., <i>Vice-Chancellor, Punjab University</i> . 53, Lawrence Road, Lahore.
1-4-08	R	Wordsworth, WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.). c/o The "Statesman", Chowringhee Square, Calcutta.
7-3-27	N	Wright, FREDERIC MAITLAND, <i>Broker</i> . Post Box No. 72, Bombay.
5-2-19	N	*Yazdani, GHULAM, M.A., F.A.S.B., <i>Epigraphist to the Government of India for Persian and Arabic Inscriptions, Hyderabad</i> . Archaeological Survey, Hyderabad, Deccan.

ORDINARY MEMBERS.

(Chronological.)

1884.				1905.			
Nov.	5.	Middlemiss, C. S.		July	5.	Vidyabhusana, A. C.	
1887.				Aug.	2.	McCay, D.	
Aug.	25.	Criper, W. R.		1906.			
1888.				Jan.	3.	Chapman, J. A.	30
June	6.	Pennell, A. P.		Mar.	7.	Nahar, P. C.	
1889.				"	"	Woolner, A. C.	
Mar.	6.	La Touche, T. H. D.		Sept.	19.	Whitehead, R. B.	
1890.				Oct.	31.	Finlow, R. S.	
5 Mar.	5.	Ray, Sir Prafulla C.		1907.			
				July	3.	Brown, J. C.	35
				"	"	Christie, W. A. K.	
1892.				1908.			
Jan.	11.	MacLagan, Sir Edward D.		Jan.	1.	Brahmachari, Sir U. N.	
Feb.	1.	Bodding, P. O.		April	1.	Wordsworth, W. C.	
1893.				Nov.	4.	Bhattacharji, B.	
Aug.	31.	Tate, G. Passman		1909.			
1894.				Jan.	6.	Shirreff, A. G.	40
Sept.	27.	Vost, W.		April	7.	Bentley, C. A.	
1895.				July	7.	Bazaz, R. K.	
10 Mar.	6.	Bose, Sir Jagadis C.		Oct.	6.	Brown, P.	
July	3.	Beatson-Bell, Sir Nicholas D.		"	"	Gangoli, O. C.	
Sept.	19.	De, K. C.		Nov.	3.	Christophers, Sir S. R.	45
1896.				1910.			
Jan.	8.	Burn, Sir Richard		May	4.	Dhavlé, S. B.	
1897.				"	"	Kemp, S. W.	
Dec.	1.	Seth, M. J.		Sept.	7.	Gravely, F. H.	
1898.							
15 Jan.	5.	Dods, W. K.		1911.			
April	6.	Tagore, Sir Pradyot C.		Feb.	1.	Insch, J.	
May	4.	Mookerjee, Sir R. N.		"	"	Law, N. N.	50
1900.				Mar.	1.	Mahtab, Sir Bijay Chand	
Dec.	5.	Grieve, J. W. A.		May	3.	Lomax, C. E.	
				June	7.	Chatterjee, K. K.	
1901.				"	"	Hosain, M. H.	
Mar.	6.	Habib-ur-Rahman.		July	5.	Sewell, R. B. S.	55
20 "	"	Vogel, J. P.		Nov.	1.	Ahmed, K.	
June	5.	Mann, H. H.					
Dec.	4.	Ross, Sir Edward D.		1912.			
1902.				May	1.	Harley, A. H.	
Feb.	5.	Shyam Lal.		June	5.	Misra, C.	
July	2.	Doxey, F.		July	3.	Andrews, E. A.	
1904.				Sept.	4.	Ghosh, T.	60
25 June	1.	Tipper, G. H.		"	"	Singhi, B. S.	
Aug.	3.	Fermor, Sir L. L.					
"	"	Stapleton, H. E.					

1913.		
Mar.	5.	Simonsen, J. L.
April	2.	Calder, C. C.
June	4.	Majumdar, R. C.
65 Nov.	5.	Fox, C. S.
1914.		
Mar.	4.	Bacot, J.
April	1.	Chaudhuri, G. D.
July	1.	Law, S. C.
Aug.	5.	Law, B. C.
1915.		
70 April	7.	Ohtani, Count K.
Aug.	4.	Gurner, C. W.
Sept.	1.	Cleghorn, M. L. W.
Oct.	27.	Chatterjee, Sir A. C.
1916.		
Feb.	2.	Majumdar, N. K.
75 June	7.	Mahajan, S. P.
July	5.	Sarkar, G.
1917.		
April	4.	Awati, P. R.
"	"	Aiyangar, K. V. R.
Aug.	1.	Bhandarkar, D. R.
1918.		
80 Feb.	6.	Banerji, N. N.
"	"	Manen, Johan van
"	"	Singh, B. M.
April	3.	Prashad, B.
1919.		
Feb.	5.	Yazdani, G.
85 Mar.	5.	Gupta, S. P.
April	2.	Friel, R.
Nov.	5.	Hemraj, R.
1920.		
Mar.	3.	Mahalanobis, P. C.
"	"	Sundara Raj, B.
90 June	2.	Suhrawardy, Sir H.
"	"	Majumdar, N. G.
July	7.	Knowles, R.
Aug.	4.	Dikshit, K. N.
Sept.	1.	Chakladar, H. C.
95 "	"	Chanda, R. P.
"	"	Chatterjee, N. C.
Dec.	"	Akbar Khan, Sir M.
1921.		
Jan.	5.	Ray, J. N.
Feb.	2.	Jain, Chhote Lall
100 "	2.	Mukerjee, R. P.
"	"	Mookerjee, S. C.
Mar.	2.	Agharkar, S. P.

June	1.	Muzamilullah Khan, Sir Mohammad	
Sept.	7.	Ray, H. C.	
Nov.	2.	Hora, S. L.	105
1922.			
Feb.	1.	Bhattacharya, V. S.	
"	"	Chopra, R. N.	
April	5.	Abdul Ali, A. F. M.	
Sept.	6.	Das-Gupta, S. N.	
Nov.	1.	Strickland-Anderson, Mrs.	110
1923.			
Mar.	7.	Labey, G. T.	
"	"	Stamp, L. D.	
May	2.	Shebbeare, E. O.	
June	6.	Howard, Sir A.	
"	"	Hutton, J. H.	115
Aug.	1.	Biswas, K. P.	
Dec.	5.	Chopra, B. N.	
"	"	Barwell, N. F.	
"	"	Sen, H. H. Lakshman	
"	"	Pande, S. B.	120
1924.			
Feb.	6.	Mahindra, K. C.	
Mar.	5.	Banerjee, P. N.	
"	"	Kanjilal M. N.	
"	"	Mitter, Sir B. L.	
"	"	Mitter, D. N.	125
"	"	McPherson, J.	
"	"	Sircar, Sir N. N.	
"	"	Sircar, Sir N. R.	
April	2.	Bahl, K. N.	
"	"	Ghose, K.	130
"	"	Richards, F. J.	
"	"	Haq, M. M.	
"	"	Mitra, J. C.	
May	7.	Bhattacharya, B.	
July	2.	Ray, A. C.	135
"	"	Mookerjee, S. P.	
Aug.	6.	Chatterji, S. K.	
"	"	Moloney, W. J.	
"	"	Roy-Chowdhury, B. K.	
"	"	Davies, L. M.	140
Nov.	5.	Chattopadhyay, K. P.	
"	"	Sahni, B.	
"	"	Mookerji, B. N.	
Dec.	8.	Das, S. N.	
"	"	Newman, Chas. F.	145
"	"	Pushong, E. S.	
"	"	Rogers, T. E.	
"	"	Basu, J. N.	
"	"	Ghose, S. C.	
"	"	Sarkar, C. K.	150
"	"	Roerich, G. N.	
"	"	Sen, H. K.	
"	"	Khan, R. R.	

1925.		
	Feb. 4.	Guha, B. S.
155	Mar. 4.	Benthall, Sir E. C.
	" "	Das, A. N.
	April 1.	Perier, F.
	" "	Hobbs, H.
	" "	Sen, B. C.
160	May 6.	Jatia, Sir O. M.
	" "	Khanna, V. L.
	" "	Koester, Hans
	" "	Staub, Max.
	" "	Wadia, D. N.
165	June 3.	Datta, S. K.
	July 8.	Bose, M. M.
	Aug. 3.	Pruthi, H. S.
	Nov. 2.	Acharya, P.
	" "	Chattopādhyāya, K. C.
170	" "	Crookshank, H.
	" "	Kimura, R.
	" "	Sharif, M.
<hr/>		
1926.		
	Jan. 4.	Fleming, Andrew
	" "	Shortt, H. E.
175	" "	Sinton, J. A.
	" "	Stapleton, G. (Miss)
	Feb. 1.	Rao, Y. R.
	" "	Ghuznavi, Sir A. K.
	" "	Hingston, H.
180	" "	Harris, H. G.
	" "	Ghuznavi, A. H.
	Mar. 1.	McKay, J. W.
	" "	Datta, H. N.
	" "	Basu, N. K.
185	" "	Kramrisch, Stella
	" "	Bagnall, J. F.
	April 5.	Senior-White, R.
	" "	Ghose, B. C.
	" "	Parker, R. H.
190	" "	Bhatia, M. L.
	" "	Mitter, K. N.
	" "	Jones, T.
	June 7.	Lemmon, R. D.
	July 5.	Mukhopadhyaya, P. K.
195	" "	Tyson, J. D.
	" "	Lyne, H. W.
	Aug. 2.	Mukherjee, J. N.
	" "	Khettry, B.
	Nov. 1.	Jameson, T. B.
200	" "	Modi, J. R. K.
	" "	Westcott, F.
	" "	Barhut, T. K.
	" "	Mills, J. P.
	" "	Galstaun, S.
205	" "	Chokhani, S.
	" "	Bagchi, P. C.
	Dec. 6.	Aiyangar, S. K.
	" "	Guha, S. N.
	" "	Roy, A. K.

1927.		
	Jan. 3.	Chakravarty, N. 210
	" "	Bivar, H. G. S.
	Feb. 7.	Chatterjee, A.
	" "	Captain, D. M.
	Mar. 7.	Hopkioson, A. J.
	" "	Urquhart, W. S. 215
	" "	Bake, A. A.
	" "	Stagg, M.
	" "	Ghosh, P. N.
	" "	Abdul Kadir, A. F. M.
	" "	Fukushima, N. 220
	" "	Wright, F. M.
	May 2.	Watson, Sir A. H.
	June 6.	Nandi, Maharaja S. C.
	" "	Jain, R.
	" "	Sinha, S. P. 225
	July 4.	Chatterjee, P. P.
	" "	Chakravarti, C.
	" "	Vance, R. L.
	Nov. 7.	Tarkatirtha, B.
	" "	Mukherji, D. 230
	" "	Brahmachary, S. C.
	Dec. 5.	Namgyal, H.H. Sir Tashi
	" "	Dechhen, H.H. Kun- zang
	" "	Chowdhury, Sir C.
	" "	Mukerjee, S. K. 235

1928.		
	Jan. 2.	Basu, N. M.
	" "	Mello, F. de
	Feb. 6.	Sinha, S. C.
	" "	Ezra, Sir D.
	" "	Reneman, Nico 240
	" "	Mukerji, Sir M. N.
	" "	Williams, T. T.
	" "	Shumsher, Sir Kaiser
	Mar. 5.	Waight, H. G.
	" "	Gooptu, D. N. 245
	" "	Neogi, P.
	" "	Biswas, C. C.
	" "	Eberl, Otto
	April 2.	Mullick, K. C.
	" "	Bhattacharyya, N. C. 250
	" "	Kumar, K. K.
	" "	Chowdhury, Rai J. N.
	" "	Harris, L. E.
	May 7.	Chatterji, K. N.
	" "	Chatterjea, Sir N. R. 255
	" "	Tucci, G.
	" "	Murray, E. F. O.
	" "	Gupta, J. N.
	" "	Ghosal, U. N.
	" "	Mallik, S. C. 260
	" "	Lord Sinha of Raipur
	" "	Saha, M. N.
	June 4.	Bhadra, S. N.
	" "	Hobart, R. C.

265	June	4.	Bhattachali, N. K.
	July	2.	Roerich, N.
	Aug.	6.	Jaitly, P. L.
	"	"	Urchs, O.
	"	"	Ghuznavi, I. S. K.
270	"	"	Heron, A. M.
	Nov.	5.	Olpadvala, E. S.
	"	"	Chopra, G.
	"	"	Statham, R. M.
	"	"	Reinhart, W.
275	"	"	Galstaun, J. C.

1929.	Jan.	7.	Basu, S. C.
	"	"	Ghose, M. C.
	Feb.	4.	Narain, Hirde
	"	"	Jenkins, W. A.
280	Mar.	4.	Travers, Sir W. L.
	"	"	Mitter, H. K.
	"	"	De, J. C.
	"	"	Basu, B. K.
	"	"	Mullick, P. N.
285	April	1.	Ghose, D. P.
	"	"	Rizvi, S. H. H.
	"	"	Sen-Gupta, N. C.
	May	6.	Sharma, S. R.
	"	"	Williams, H. F. F.
290	"	"	Pawsey, C. R.
	July	1.	Dunn, J. A.
	Aug.	5.	Sommerfeld, A.
	Nov.	4.	Singh, J.
	"	"	Cotter, G. de P.
295	"	"	Campbell, G. R.
	"	"	Parry, N. E.
	"	"	Jarvis, R. Y.
	"	"	Edwards, L. B.
	"	"	Siddiqi, M. Z.
300	"	"	Mallya, B. G.
	Dec.	2.	Khan, M. R.
	"	"	Fawcus, L. R.
	"	"	Thomas, H. W.

1930.	Jan.	6.	Jain, N. K.
305	"	"	Haldar, S. K.
	"	"	Bassewitz, Count
	"	"	Hamilton, Sir D. M.
	"	"	Martin, M. F. C.
	"	"	Chakravarti, S. C.
310	Feb.	3.	Henderson, A. G.
	"	"	Mahtab, U. C.
	"	"	Korni, M. A.
	"	"	Pettigrew, W.
	"	"	Chakravarti, M. N.
315	Mar.	3.	Mukharji, I. C.
	"	"	Ashton, H. S.
	April	7.	Pessein, J. F.
	May	5.	Deo, Sir P. C. Bhanj
	"	"	Matthias, O. G.
320	"	"	Mallam, G. L.

May	5.	Cooper, G. A. P.	
June	2.	Kenny, D. E. C.	
Nov.	3.	Austin, G. J.	
"	"	Rahman, S. K.	
"	"	Newman, C. D.	325
Dec.	1.	Roy, K. K.	

1931.	Jan.	5.	Shukla, J. P.
	"	"	Chatterji, D.
	"	"	Evans, P.
Feb.	2.	Wauchope, R. S.	330
"	"	Douglas, G. W.	
"	"	Clough, J.	
Mar.	2.	Bose, S. K.	
April	6.	Bhose, J. C.	
"	"	Prasad, S.	335
May	4.	Bottomley, J. M.	
June	1.	Lort-Williams, J.	
Aug.	3.	Barua, K. L.	

1932.	Feb.	1.	Holme, J. W.
	"	"	Visser, Ph. C.
	Mar.	7.	Hughes, A.
	"	"	Chakraborty, K. B.
	"	"	Darbari, M. D.
May	2.	Thakur, A.	
"	"	Muhammad, M.	345
June	6.	Vere-Hodge, Mrs. E. H.	
Nov.	7.	Suvarna Shumser	
"	"	Driver, D. C.	
"	"	Sitling, G. T.	
Dec.	5.	Dutt, N.	350
"	"	Boyle, C. A.	
"	"	Deb, S. K.	

1933.	Jan.	2.	George, J.
	"	"	Dutch, R. A.
	"	"	Singh, R. P.
	Feb.	6.	Wellsted, T. A.
	"	"	Ghatak, J. C.
	"	"	West, W. D.
Mar.	6.	Seal, S. C.	
June	5.	Morris, C. J.	360
"	"	Chakravarti, S. K.	
"	"	Rossetti, F. F. L.	
July	3.	Dutt, G. S.	
Aug.	7.	Sinh, Raghurir	
"	"	Vedantatirtha, V.	365
Nov.	6.	Kavyatirtha, R. D.	
"	"	Krishnan, M. S.	
"	"	Coulson, A. L.	

1934.	Jan.	1.	Ahmad, M. J.
	Feb.	5.	Bates, W. H.
	"	"	Bhuyan, S. K.
			370

	Feb. 5.	Haldar, B. V.		Nov. 5.	Dey, M.	400
	" "	Kirby, W.		Dec. 3.	Burt, B. C.	
	" "	Law, B. C.		" "	Gladstone, J.	
375	" "	Nariman, R. K.		" "	Wilson, H. E. C.	
	" "	Pasricha, C. L.		" "	Brahmachari, P. N.	
	" "	Percival, F. G.		" "	Chatterjee, S. C.	405
	" "	Richter, H.		" "	Kapur, C. L.	
	" "	Sale, H. M.				
380	" "	Selzam, E. von				
	Mar. 5.	Craddock, Sir W. M.		1935.		
	" "	Modi, J. J. J.		Feb. 4.	Cookson, C. A.	
	" "	Singh, H. H. Sir K.		" "	Singh, S.	
	May 7.	Bent, W. A.		" "	Sayeeduddin, M.	
385	" "	Duncan, P. C.		" "	Sarkar, N. R.	410
	June 4.	Chatterji, B. R.		" "	Law, P. C.	
	" "	Daver, N. S.		" "	Lal, R. B.	
	Aug. 6.	Husain, S. A.		" "	Jaffar, S. M.	
	" "	Mullick, M. L.		Mar. 4.	Roy, S. Singh.	
390	" "	Rao, U. S.		" "	Jack, Hon. Justice	
	Sep. 3.	Auden, J. B.			R. E.	415
	" "	Krishnan, K. S.		" "	Groth, E. M.	
	" "	Ledrus, M.		June 3.	Singhania, R. P.	
	" "	Ow - Wachendorf,		Aug. 5.	Shattock, J. S. H	
		Baron W.		Sep. 30.	Dutt, M. N	
395	" "	Sondhi, V. P.		" "	Basu, S. K.	420
	" "	Ulser, M. E. M. M.		" "	Mitter, S. K.	
	" "	Couchman, H. J.		" "	Howland, F.	
	Nov. 5.	Gee, E. R.		Nov. 4.	Bor, N. L.	
	" "	Hosain, Prince		" "	Anina Klebe.	
		A. M. M. M. A.		" "	Hirtzel, M. A. F.	425

LIFE MEMBERS.

(Chronological.)

	5-11-84	C. S. Middlemiss (30 N.).	5- 7-11	R. B. S. Sewell (28 N.).	
	6- 6-88	A. P. Pennell (88 F.).	1-11-11	Kamaluddin Ahmad (24 N.).	
	6- 3-89	T. H. D. La Touche (10 N.).	5- 3-13	J. L. Simonsen 30 (19 N.).	
	11- 1-93	Sir Edward D. MacLagan (94 R.).	4- 3-14	J. Bacot (14 F.).	
5	1- 2-93	P. O. Bodding (14 N.).	5- 8-14	B. C. Law (33 R.).	
	31- 7-93	G. P. Tate (23 N.).	5- 7-16	G. Sircar (29 N.).	
	27- 9-94	W. Vost (94 F.).	6- 2-18	Johan van Manen (25 R.).	
	3- 7-95	Sir Nicholas D. Beatson-Bell (95 N.).	3- 4-18	B. Prashad (29 R.). 35	
	19- 9-95	K. C. De (26 R.).	2-11-21	S. L. Hora (30 N.).	
10	3- 5-98	Sir R. N. Mookerjee (29 R.).	6- 6-23	Sir A. Howard (30 N.).	
	5-12-00	J. W. A. Grieve (00 F.).	5-12-23	H.H. Lakshman Sen (24 N.).	
	6- 2-01	J. Ph. Vogel (25 F.).	7- 5-24	B. Bhattacharya (24 N.).	
	2- 7-02	F. Doxey (28 R.).	6- 8-24	L. M. Davies 40 (24 N.).	
	1- 6-04	G. H. Tipper (27 N.).	3-12-24	G. Roerich (28 F.).	
15	28- 9-04	H. E. Stapleton (26 R.).	6- 6-27	B. D. Jain (28 R.).	
	2- 8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
	3- 1-06	J. A. Chapman (28 N.).	5-12-27	H.H. Sir Tashi Nam- gyal (27 N.).	
	7- 3-06	A. C. Woolner (28 N.).	5-12-27	H.H. Kunzang Dech- hen (27 N.). 45	
	19- 7-06	R. B. Whitehead (26 N.).	6- 2-28	Sir D. Ezra (28 R.).	
20	3- 7-07	J. Coggin Brown (28 N.).	6- 2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	
	3- 7-07	W. A. K. Christie (29 N.).	2- 7-28	N. Roerich (28 F.).	
	1- 1-08	Sir U. N. Brahma- chari (27 R.).	5-11-28	W. Reinhart (28 F.).	
	7- 4-09	C. A. Bentley (30 N.).	4-11-29	G. de P. Cotter (32 N.). 50	
	4- 5-10	S. B. Dhavle (10 N.).	3- 3-30	H. S. Ashton (30 N.).	
25	4- 5-10	S. W. Kemp (29 F.).	5- 1-31	P. Evans (31 N.).	
	1- 2-11	James Insch (28 R.).	7-11-32	Suvarna Shumser Jung Bahadur Rana (32 N.).	
	7- 6-11	M. Hidayat Hosain (27 N.).	6- 2-33	J. C. Ghatak (33 R.).	
			5- 2-34	H. M. Salo (34 N.). 55	
			5- 3-34	H.H. Sir K. Singh (34 N.).	

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election	(Science.)
15-1-34	BARON ERNEST RUTHERFORD OF NELSON, O.M., President, Royal Society, London.
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secrétaire Perpetuel, Académie des Sciences, Paris.
15-1-34	SIR SYDNEY BURRARD, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. SIR SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, K.T., c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London.
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhusvej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMRONG RAJANUBHAB OF SIAM, Siam.

ASSOCIATE MEMBERS.

Date of Election	
1-2-22	*PIERRE JOHANNIS, REV., S.J., B.LITT. (OXON.), <i>Professor of Philosophy</i> , St. Xavier's College, 30, Park Street, Calcutta.
1-2-22	*ANANTAKRISHNA SASTRI, MAHAMAHOPADHYAYA, VEDANTA-VISARADA, <i>Lecturer in Sanskrit</i> , Calcutta University, 32, College Square, Calcutta.
2-5-27	*N. N. VASU, RAI SAHIB, 20, Visvakosh Lane, Baghbazar, Calcutta
2-12-29	†NARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor</i> , 'Man in India', Church Road, Ranchi.
1-1-34	L. BOGDANOV, Flat 8-B, Solomon Mansions, 7, Royd Street, Calcutta.

* Re-elected for a further period of five years on 7-3-1932 under Rule 2c.

† Re-elected for a further period of five years on 1-1-1934 under Rule 2c.

INSTITUTIONAL MEMBERS

Date of Election.	
28-10-29	The Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland
2-12-29	The Adyar Library, Adyar, Madras S
4-5-31	The Benares Hindu University Library, Benares.
1-6-31	The Ohtani University Library, Kyoto, Japan.
5 7-12-31	The Annamalai University Library, Annamalai-nagar, Chidambaram, S. India.
30-10-33	The Allahabad University Library, Allahabad.
30-4-34	The Bombay University Library, Bombay.

ORDINARY FELLOWS

Date of Election.	
2-2-10	T. H. D. La Touche, B.A., F.G.S.
2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.S.O.
2-2-10	Sir E. D. Ross, KT., C.I.E., PH.D.
7-2-12	Sir J. C. Bose, KT., C.S.I., C.I.E., M.A., D.S.O., F.R.S.
5 7-2-12	Sir Samuel R. Christophers, KT., C.I.E., O.B.E., I.M.S., F.R.S.
7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.
5-2-13	J. Ph. Vogel, PH.D., LITT.D.
5-2-13	S. W. Kemp, B.A., D.S.O., F.R.S.
3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.
10 2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S. (<i>retd.</i>).
2-2-16	Sir L. L. Fermor, KT., O.B.E., A.R.S.M., D.S.O., F.G.S., M.INST.M.M., F.R.S.
7-2-17	F. H. Gravely, D.S.O.
6-2-18	J. L. Simonsen, D.S.O., F.I.C., F.R.S.
6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.
15 5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.
5-2-19	W. A. K. Christie, B.S.O., PH.D., M.INST.M.M.
5-2-19	D. R. Bhandarkar, M.A., PH.D.
5-2-19	R. B. Seymour Sewell, C.I.E., M.A., S.O.D., M.R.C.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., I.M.S.
2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F.
20 1-2-22	Ramaprasad Chanda, B.A.
4-2-25	M. Hidayat Hossain, PH.D.
1-2-26	P. O. Bodding, M.A.
7-2-27	R. Knowles, C.I.E., B.A., M.R.C.S., L.R.C.P., I.M.S.
7-2-27	Johan van Manen, C.I.E.
25 7-2-27	B. Sahni, M.A., S.O.D., D.S.O., F.G.S.
7-2-27	A. C. Woolner, C.I.E., M.A., D.LITT.
6-2-28	H. E. Stapleton, M.A., B.S.O., I.E.S. (<i>retd.</i>).
6-2-28	B. Prashad, D.S.O., F.Z.S., F.R.S.E.
6-2-28	C. A. Bentley, C.I.E., M.B., D.P.H., D.T.M. & H.
4-2-29	Sir Albert Howard, KT., C.I.E., M.A.
30 4-2-29	J. H. Hutton, C.I.E., M.A., D.S.O., I.C.S.
4-2-29	Sir Edward D. MacLagan, K.C.S.I., K.C.I.E.
3-2-30	G. de P. Cotter, R.A., S.O.D., M.INST.M.M., F.G.S.
3-2-30	S. L. Hora, D.S.O., F.Z.S., F.R.S.E.
35 3-2-30	J. P. Mills, I.C.S., M.A., J.P.

Date of Election		
3-2-30	Meghnad Saha, D.SC., F.R.S.	
2-2-31	S. Krishnaswami Aiyangar, M.A., PH.D., F.R.HIST.S.	
2-2-31	R. N. Chopra, C.I.E., M.A., M.B., I.M.S.	
2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).	
1-2-32	J. Bacot.	40
6-2-33	Percy Brown, A.R.C.A.	
6-2-33	Ordhendra Coomar Gangoly, B.A.	
6-2-33	Ghulam Yazdani, M.A.	
5-2-34	D. N. Wadia, M.A., B.SC., F.R.G.S.	

HONORARY FELLOWS

Date of Election		
5-2-96	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.	
2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberley, Surrey, England.	
6-9-11	KAMAKHYANATH TARKAVAGISA, MAHAMAHOPADHYAYA. 23/1B, Ganen Mittor Lane, P.O. Shambazar, Calcutta.	
5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.SC., LL.D., PH.D., F.R.S. Trinity College, Cambridge, England.	
6-12-16	G. A. BOULENGER, F.R.S., LL.D. Jardin Botanique de L'Etat, Brussels.	5
4-2-20	SIR AUREL STEIN, K.C.I.E., PH.D., D.LITT., D.SC., D.O.L., F.B.A. o/o Indian Institute, Oxford, England.	
4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVI ^e .	
4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S. Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2.	
4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.	
4-2-20	SIR DAVID PRAIN, KT., C.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.L.S., F.R.S., F.Z.S., M.R.I.A. Royal Botanic Gardens, Kew, Surrey, England.	10
4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.SC., LL.D., D.C.L., F.R.S., F.R.A.S. St. John's College, Cambridge, England.	
4-2-20	SIR JAMES FRAZER, KT., D.C.L., LL.D., LITT.D. Trinity College, Cambridge.	
4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.	
2-3-21	F. W. THOMAS, C.I.E., M.A., PH.D., <i>Boden Professor of Sanskrit, University of Oxford</i> . 161, Woodstock Road, Oxford, England.	
7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.SC., F.R.S. <i>Principal</i> , University of Edinburgh, Blackford Brae, Edinburgh.	15
7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.	
7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.	
7-3-27	RT. HON'BLE THE EARL OF LYTTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.	
4-7-27	C. SNOUOK HURGRONJE. Rapenburg 61, Leiden, Holland.	
5-12-27	LT.-COL. SIR T. WOLSELEY HAIG, K.C.I.E., C.S.I., C.B.E., M.A., C.M.G. 34, Gledstanee Road, West Kensington, London, W. 14.	20

Date of Election.	
2-12-29	SIR RAJENDRA NATH MOOKERJEE, K.C.I.E., K.C.V.O. 7, Harington Street, Calcutta.
2-12-29	DR. CHARLES J. H. NICOLLE, <i>Director</i> . Pasteur Institute, Tunis.
5-5-30	DR. R. ROBINSON, D.SC., F.R.S. The Dyson Perrins Laboratory, South Parks Road, Oxford, England.
5-5-30	DR. H. JACOBI, C.I.E. (HON.). 59, Niebuhrstrasse, Bonn, Germany.

CHANGES IN MEMBERSHIP.

LIST OF MEMBERS WHO HAVE BEEN ABSENT FROM INDIA THREE YEARS AND UPWARDS.*

* Rule 40.—After the lapse of three years from the date of a member leaving India, if no intimation of his wishes shall, in the interval, have been received by the Society, his name shall be removed from the List of Members.

The following members will be removed from the next Member List of the Society under the operation of the above rule :—

1. Count Bassewitz. (1930.)
2. Andrew Fleming. (1926.)
3. R. Friel. (1919.)
4. R. Y. Jarvis. (1929.)
5. Thornton Jones. (1926.)
6. Hans Koester. (1925.)
7. C. E. Lomax. (1911.)

LOSS OF MEMBERS DURING 1935.

BY RETIREMENT.

Ordinary Members.

1. Syed Khalil Ahmad. (1930.)
2. Sivapada Bhattacharya. (1922.)
3. Nilmani Chakravarti. (1909.)
4. Sir J. C. Coyajee. (1925.)
5. Rev. E. C. Dewick. (1927.)
6. F. B. Fisher. (1929.)
7. H. A. Fooks. (1931.)
8. Miss Gerta Hertz. (1933.)
9. Otto Hubert. (1926.)
10. P. S. Jackson. (1923.)
11. R. B. Khambata. (1926.)
12. M. N. Mitra. (1929.)
13. Bhabadev Mukherjee. (1928.)
14. Aditya Nath Mukherjee. (1926.)
15. Saradinu Mukherjee. (1924.)
16. Karmajogin Ray. (1934.)
17. Sir C. V. Raman. (1922.)
18. Sir D. P. Sarbadhikari. (1909.)
19. A. T. Weston. (1934.)
20. B. C. Hobbs. (1935.)
21. G. F. Berthoud. (1929.)
22. J. F. Snaith. (1926.)
23. N. J. Judah. (1924.)

BY DEATH.*Ordinary Members.*

1. H. W. Acton. (1921.)
2. A. Ghaffar. (1926.)
3. A. G. Lunan. (1929.)
4. J. N. Maitra. (1918.)
5. L. N. Rai. (1928.)
6. V. N. Vasu. (1934.)
7. F. Williamson. (1934.)
8. Ganesh Prashad. (1935.)
9. P. J. Brühl. (1909.)
10. Narendranath Basu. (1928.)

Special Anniversary Honorary Member.

1. Henry Fairfield Osborn. (1934.)

Honorary Fellows.

1. H. A. Giles. (1917.)
2. Sylvain Levi. (1920.)

Associate Member.

1. H. Hosten, S.J. (1910.)

UNDER RULE 38.

1. G. N. Bose Mullik. (1928.)
2. D. L. Clendenin. (1932.)
3. P. K. Das. (1928.)
4. Raja K. Deb. (1925.)
5. M. Eliade. (1931.)
6. G. S. Kewal. (1928.)
7. S. W. Laden La. (1925.)
8. J. J. Mahudavala. (1930.)
9. P. V. Ramanujaswami. (1926.)
10. Suhrid Kumar Roy. (1928.)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
- 1895 Yati Bhusana Bhaduri.
- 1896 Jnan Saran Chakravarti.
- 1897 Sarasi Lal Sarkar.
- 1901 Sarasi Lal Sarkar.
- 1904 { Sarasi Lal Sarkar.
- Surendra Nath Maitra.
- 1907 Akshoy Kumar Mazumdar.
- 1911 { Jitendra Nath Rakshit.
- Jatindra Mohan Datta.
- Rasik Lal Datta.
- 1913 { Saradakanta Ganguly.
- Nagendra Chandra Nag.
- Nilratan Dhar.
- 1918 Bibhutibhusan Dutta.
- 1919 Jnanendra Chandra Ghosh.
- 1922 Abani Bhusan Datta.
- 1923 Bhailal M. Amin.
- 1926 Bidhu Bhusan Ray.
- 1927 Kalipada Biswas.
- 1931 T. C. N. Singh.
- 1932 P. N. Das-Gupta.
- 1933 Nirmal Kumar Sen.
- 1934 D. P. Roy Chowdhury.
- 1935 Kalipada Biswas.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
- 1903 Sir Ronald Ross, KT., K.C.B., C.I.E., K.C.M.G., M.R.C.S.,
F.R.C.S., D.P.H., LL.D., D.S.C., M.D., F.R.S.
- 1905 D. D. Cunningham, C.I.E., F.R.S.
- 1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
- 1909 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
F.L.S., F.Z.S., M.R.I.A., F.R.S.
- 1911 Carl Diener.
- 1913 William Glen Liston, C.I.E., M.D., D.P.H.
- 1915 J. S. Gamble, C.I.E., M.A., F.R.S.
- 1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
- 1919 N. Annandale, C.I.E., D.S.C., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
- 1921 Sir Leonard Rogers, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
F.R.S.
- 1923 Sir Samuel Christophers, KT., C.I.E., O.B.E., F.R.S., F.A.S.B.,
M.B., LT.-COL., I.M.S.
- 1925 J. Stephenson, C.I.E., B.S.C., M.B., CH.B., F.R.S., F.R.C.S.,
F.R.S.E., LT.-COL., I.M.S.
- 1927 S. W. Kemp, B.A., D.S.C., F.R.S., F.A.S.B.
- 1929 Sir Albert Howard, KT., C.I.E., M.A., F.A.S.B.

- 1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.),
M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.A.S.B., F.R.S., LT.-COL.,
I.M.S.
1933 R. Row, O.B.E., D.SC.
1935 B. Sahni, M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.A.S.B.
-

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D.,
F.B.A., HON. F.A.S.B., I.C.S. (*retired*).
1930 Dr. Felix H. D'Herelle.
1932 Dr. C. Snouck Hurgronje.
1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A.,
M.D., PH.D., F.S.M.F., F.A.S.B.
-

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P., F.R.S.
1933 Dr. Eugène Dubois
-

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
1932 Dr. Ernst J. O. Hartert, PH.D.
1935 Prof. Leo Semenowitch Berg.
-

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
1934 Isaac Henry Burkill, M.A.
-

INDIAN SCIENCE CONGRESS MEDAL, CALCUTTA.

RECIPIENT.

- 1935 Meghnad Saha, D.SC., F.R.S., F.A.S.B.
-

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1935.

JANUARY, 1935.

No Meeting.

FEBRUARY, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 4th, immediately after the termination of the Annual Meeting.

PRESENT.

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S., M.INST.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Brahmachari, Sir U. N.

Brown, Mr. Percy

Calder, Mr. C. C.

Chakravarti, Mr. C.

Chatterjee, Mr. P. P.

Chatterjee, Dr. S. K.

Dikshit, Mr. K. N.

Hobbs, Mr. H.

Holme, Mr. J. W.

Hora, Dr. S. L.

Hosain, Dr. M. Hidayat

Jenkins, Dr. W. A.

Manen, Mr. Johan van

Mitter, Sir B. L.

Mukherjee, Dr. J. N.

The minutes of the last meeting were read and confirmed.

The General Secretary announced that the presentations of books, etc., received during the last month, would be exhibited in the next Monthly Meeting.

The following candidates were balloted for for election as Ordinary Members :—

(1) *Lal, Ram Bihari*. M.B., B.S., D.P.H., D.T.M. & H., D.B., Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health, 21, Chittaranjan Avenue, Calcutta.

Proposer : R. N. Chopra.

Seconder : S. L. Hora.

(2) *Hobbs, Bertram Carmichael*, Solicitor, c/o. Sanderson and Morgans, 26, Dalhousie Square, Calcutta.

Proposer : Johan van Manen.

Seconder : Ramaprasad Chanda.

(3) *Law, Parbutty Churn*, 223, Cornwallis Street, Calcutta.

Proposer : Bhabani Churn Law.

Seconder : Johan van Manen.

(4) *Sayeeduddin, Mohammed*, B.Sc., M.A. (Edin.), F.R.M.S., F.F.Sc., Professor of Botany, Osmania University, Hyderabad, Deccan.

Proposer : S. L. Hora.

Seconder : H. S. Pruthi.

(5) *Vijayaraghavacharya, Sir T.*, Diwan Bahadur, K.B.E., Vice-Chairman, Imperial Council of Agricultural Research, Secretariat, New Delhi.

Proposer : S. L. Hora.

Seconder : Johan van Manen.

(6) *Prasad, Ganesh*, M.A., D.Sc., Hardinge Professor of Higher Mathematics, Calcutta University, 2, Samavaya Mansions, Corporation Street, Calcutta.

Proposer : J. N. Mukherjee.

Seconder : L. L. Fermor.

(7) *Jaffar, S. M.*, B.A., Author, Translator to the Judicial Commissioner, North-West Frontier Province, 1508, Khudadad Street, Peshawar City, N.W.-F.P.

Proposer : M. Hidayat Hosain.

Seconder : K. N. Dikshit.

(8) *Cookson, Christopher Arthur*, Assistant, Bombay Co., Ltd., 19, British Indian Street, Calcutta.

Proposer : Johan van Manen.

Seconder : Percy Brown.

(9) *Singh, Jagatjit*, His Highness Maharaja Bahadur, G.C.S.I., G.C.I.E., G.B.E., Colonel Farzand-i-Dilband Rasikhul-i-Itikad, Daulat-i-Inglishta Raja-i-Rajgan, Maharaja of Kapurthala, Kapurthala State, Punjab.

Proposer : Johan van Manen.

Seconder : Sir U. N. Brahmachari.

(10) *Sarkar, Nalini Ranjan*, Mayor of Calcutta, Hindusthan Buildings, Corporation Street, Calcutta.

Proposer : Johan van Manen.

Seconder : Sir U. N. Brahmachari.

(11) *Singh, Sarabjit*, M.A., B.L., P.O. Imphal, Manipur State.

Proposer : S. L. Hora.

Seconder : R. N. Chopra.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(7) Rai Bahadur Shiv Ram Kashyap (An Ordinary Fellow, 1933).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(10) I. M. Puri (An Ordinary Member, 1928).

(11) H. M. Bose (An Ordinary Member, 1925).

(1) Sir D. P. Sarvadhikary (An Ordinary Member, 1909).

(2) P. S. Jackson (An Ordinary Member, 1923).

(3) H. A. Fooks (An Ordinary Member, 1931).

The General Secretary reported that the election of—

(2) B. M. Vyas (Elected on 3-9-34),

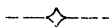
has become null and void, under Rule 9.

The General Secretary reported that the following has withdrawn his application for membership, since the previous meeting :—

(1) S. A. Ashgar (Elected on 3-9-34).

The President announced the result of the ballot for the election of Ordinary Members and declared that all candidates had been duly elected.

The President announced that no meeting of the Medical Section had yet been arranged to be held during the current month.



MARCH, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 4th, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, K.T., F.Z.S., M.B.O.U., Vice-President, in the Chair.

Members :

Bose, Mr. M. M.
Calder, Mr. C. C.
Chakravarti, Mr. C.
Chanda, R. B. R.
Chatterjee, Mr. P. P.
Dey, Mr. Mukul
Driver, Mr. D. C.
Ghose, Mr. T. P.
Ghuznavi, Mr. I. S. K.

Hobbs, Mr. Harry
Hora, Dr. S. L.
Jain, Mr. C. L.
Ledrus, Rev. M., S.J.
Manen, Mr. Johan van
Prasad, Mr. Sharda
Rahman, Mr. S. K.
Rao, Mr. U. S.
Ray, Dr. H. C.

Visitors :

Husain, Mr. S. Wajahat

Sen, Mr. A. B.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nine presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(12) *Jack, The Hon'ble Mr. Justice Robert Ernest*, I.C.S., United Service Club, Calcutta.

Proposer : L. L. Fermor.

Seconder : J. Lort-Williams.

(13) *Groth, Edward M.*, American Consul, American Consulate General, 9, Esplanade Mansions, Esplanade, Calcutta.

Proposer : Johan van Manen.

Seconder : L. L. Fermor.

(14) Roy, Saileswar Singh, Landholder, 15, Lansdowne Road, Calcutta.

Proposer : Johan van Manen.

Seconder : Sir U. N. Brahmachari.

The General Secretary reported that there had been no loss of membership since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(4) E. C. Dewick (An Ordinary Member, 1927).

The General Secretary reported that the election of—

(1) A. K. Chanda (Elected on 5-11-34).

has become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported the constitution of the various Standing Committees of the Society for the year 1935-36 to be as follows :—

Finance Committee —

President	} <i>Ex-officio.</i>
Treasurer	
General Secretary	
Dr. J. N. Mukherjee.	
Dr. A. M. Heron.	

Library Committee —

President.	} <i>Ex-officio.</i>
Treasurer.	
General Secretary.	
Philological Secretary	
Jt. Philological Secretary	
Physical Science Secretary	
Biological Science Secretary	
Medical Secretary	
Anthropological Secretary	
Library Secretary	

Publication Committee :—

President.	} <i>Ex-officio.</i>
Treasurer.	
General Secretary.	
Philological Secretary	
Jt. Philological Secretary	
Physical Science Secretary	
Biological Science Secretary	
Medical Secretary	
Anthropological Secretary	
Library Secretary	

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that no meeting of the Medical Section had been arranged to be held during the current month.

The following communication was made and commented upon :—

1. JOHAN VAN MANEN.—*Recent Advances in the study of Chinese Philosophy.*

The recent issue of the second volume of Forke's elaborate history of Chinese Philosophy makes it opportune to consider the present position of the study of Chinese Philosophy in relation to a comprehensive historical study of the philosophy of all mankind.

An attempt is made to review and assess the available material.

Mr. Van Manen said that history might be compared to map making. The progressive description of historical knowledge was like filling in blank spaces on the map with details of greater and greater precision and growing minuteness. Considered from the point of view of function one might think of the growth of knowledge as akin to the development of communications in a country, or to growing internal specialization and development of nerve centres in the human brain. So modern a book of reference as the latest edition of the *Encyclopædia Britannica* dealt in its article on the history of philosophy only under the headings of Greek Philosophy, Patristic Philosophy, Arabic and Jewish Philosophy and Modern Philosophy. In a brief introductory paragraph to the elaborate article one would find the following sentences :—'To all intents and purposes ancient philosophy is essentially Greek Philosophy. This is not to deny the reality and value of Eastern Philosophy, but it remains true that Western Philosophy from Thales onwards is sufficiently self-contained to warrant separate treatment. There are separate articles dealing with Brahmanism, Buddhism, Indian Philosophy, Arabian Philosophy, Jewish Philosophy, etc.' Baldwin's Dictionary of Philosophy and Psychology, which represents a standpoint of about a quarter of a century ago, says under the heading 'History of Philosophy' that the subject 'may, as a whole, be divided into two great portions, that which treats of Oriental Philosophy and that which deals with Occidental or European and American Philosophy'. The article on Oriental Philosophy deals with Egypt, Babylonia-Assyria, Persia, India and China. Up to recently general books on the history of Philosophy dealt with non-European Philosophy as a rule as a negligible quantity. Speaking in very broad generalizations it is only with the publication of Deussen's History of Philosophy that Indian Philosophy was incorporated on an equal footing, and acquired in the West citizen rights in the republic of human thought. A. Forke has felt the ambition of achieving for Chinese Philosophy what Deussen had done a few decades ago for Indian Philosophy. In 1927, he published his history of ancient Chinese Philosophy, followed in 1934 by his history of mediæval Chinese Philosophy. A third volume is to complete the work, continuing the history to modern times. The two published volumes cover about a thousand quarto pages. The material contained in them is not chiefly based, as in most of this kind of works hitherto published, on the chance material to be found dealt with in isolated monographs or translations, but goes beyond second-hand sources, dealing systematically with the single subjects on the basis of the original texts. It passes in review in a methodical manner the entire material available in China. Passages quoted in translation in the course of the work are everywhere given in the original in foot-notes.

The speaker then gave a brief sketch of the study of Chinese Philosophy in the West before Forke.

In the *Mélanges posthumes* of Abol Rémusat (Paris, 1843) there is a brief essay of 45 pages on Chinese Philosophy. It opens with a list of names of Western scholars who had studied the subject before, and it enumerates Herdtrich, Carpzov, Bayer, Noël, Leibnitz, Bülfinger, and 'many others'.

He exhibited some older publications, such as Intorcetta's *Confucius, Sinarum Philosophus, sive Scientia Sinensis* (Paris, 1687) and also Marshman's *Works of Confucius containing the original text with translation* (Serampore, 1809), the latter a work of special interest for inhabitants of Calcutta.

He then referred to the more recent works of Von Brandt, de Harlez, Faber, Grube, Wiegner, Suzuki, Wilhelm, Tucci, Zenker, and Hackmann, as well as to some recent Chinese and Japanese Historians of Chinese Philosophy. He showed how in the last 50 years a great mass of material had been published on Chinese religion in which the religious and philosophical aspects had not yet been clearly differentiated.

A great drawback was that the available literature on Chinese philosophy and religion is so extensive and so difficult of access that few scholars can utilize all that has already been published in learned and general periodicals, in the form of academical dissertations, of pamphlets, and of separate chapters in general works.

The first compendious treatment of Chinese Philosophy in the West was perhaps the Chinese part of *Die Philosophie im Fortgange der Weltgeschichte* by Windischmann of which the first of the four volumes (1827) is devoted to China. The work is based on the scanty material available at the time, and is rather wide than deep.

Another interesting treatise is the first part of an *Einleitung in das Verstandniss der Weltgeschichte* by Aug. Gladisch, who drew a parallel between Chinese and Pythagorean thought, Posen, 1845.

Zenker's *Geschichte der Chinesischen Philosophie* was published in two volumes in 1926 and 1927. It is written with enthusiasm and more primarily in the interest of philosophical than philological study. Hackmann's *Chinesische Philosophie* was published in 1927 in one volume. The author is a sinologist by profession and his work is an excellent and well-balanced production though briefer than Forke's compendium and without Chinese quotations.

In English Suzuki's *Brief History of Early Chinese Philosophy*, London, 1914, is a readable, but as the title indicates, a briefer and more fragmentary work.

A similar work in Italian is Tucci's *Storia della Filosofia Cinese Antica*, Bologna, 1922.

The speaker then rapidly sketched the discovery of Taoism and the spread of the Tao Te King in Europe, of which at present some fifty European translations exist, followed by the study of other masters of the Taoistic school, such as Lie Tszé and Chuang Tszé.

It had to be noted that notwithstanding the many translations and the fact that the Chinese text of the Tao Te King had been printed by five different European scholars since 1842, Western scholarship had not yet produced an adequate critical *variorum* edition of the important work. He also referred to the study of the enigmatic old divination book, the Yi King, of which at present some seven European translations exist.

He concluded with the expression of his opinion that thanks to Forke's great work, Chinese thought had now acquired a lasting place in all future history of the thought of mankind and that the big blank hitherto occurring in the philosophical map of the world with regard to China could never be left empty again.

Mr. H. Hobbs asked for a definition of the word philosophy.

Mr. Van Manen replied that there were almost as many definitions as philosophers. The richer the contents of a concept, the more difficult

to enclose them fully or adequately in words. A Chinese philosopher had said, *our* truth is not *the* truth. A definition in a well-known dictionary was 'the science of science', also expanded to 'the science of the foundations of knowledge'. James prefers a more human and less scholastic definition and says that philosophy is simply 'man thinking'. The Encyclopædia of Religion and Ethics agrees with this view in using the neat phrase 'rational reflexion upon experience'. If he recollected well, a definition given by Cardinal Mercier was that philosophy is the search of the deepest causes of the most general principles. From other points of view it may be said that philosophy is the study of the connection of existence in all its forms, or the study of principles, generalities, as against facts and particulars, which might be called science. Again, it might be held that philosophy seeks meaning, value, interpretation. Other simple definitions are to call philosophy classification, not only in a superficial but in progressively deeper ways, or mental research of unity or again differently, to call it the art of synthesis or co-ordination.

Mr. *Hobbs* suggested that philosophy aims at finding the exact truth which, seeing that man is necessarily biassed, must be a hopeless ideal. However, the less bias, the nearer the truth.

The following paper was read :—

1. S. WAJAHAT HUSAIN.—*Mahmūd Gāwān*.

Mahmūd Gāwān was one of the most remarkable characters in mediæval Indian History and a scholarly life of him, based on original research, has not been published. The present paper supplies that want. All the sources, except those in the Portuguese language, have been used by the author in this compilation.

The life-history of Mahmūd Gāwān is treated under the following heads in this paper :—

Early life and education. Travels and trading. Arrival in India and rise to the position of Prime Minister in the Deccan. Administrative skill. Military skill. Educational activities. Activities as author and poet. Domestic life. The end.

Dr. H. C. Ray enquired for details concerning the sources utilized by the author. Had any local chronicles been discovered dealing specifically with Gāwān or the dynasty he served and belonging to a contemporary period? He warned against depending too much on Firishṭa whom he has been found sometimes rather unreliable, as he had shown in his *Dynastic History of Northern India*. He requested the author not only to quote his sources in detail but to appraise their value. He further wished for a statement from the author as to how far his paper had added to our previous knowledge of Gāwān.

Mr. R. Chandra suggested that the usefulness of the paper might be enhanced by the addition of an appendix giving a literal and critical translation of Firishṭa's text.

Mr. *Hobbs* remarked that the life-story revealed by the author clearly indicated the outstanding character of Gāwān. A man rising to the position to which Gāwān rose under a potentate of a character as that of his master and in the circumstances of his times must needs be of great human interest.

In reply Mr. *Wajahat Husain* said that Mullā 'Abdul Karīm Hamadānī, a contemporary and friend of Mahmūd Gāwān, has written a work on the life of Gāwān from his birth till his last days. Firishṭa states that he has based his biography of Gāwān chiefly on this contemporary writer, but this source has apparently not survived and no copy of the work can be traced. No other independent contemporary sources are known.

In his paper the speaker had quoted in detail all sources utilized by him, which are practically all 'secondary' ones.

As to a translation of Firishta's data, there would be a difficulty. There is no completely consolidated section concerning Gāwān in Firishta. References to him are scattered throughout his work and might be all sought out and brought together, but this was not exactly the aim of the present paper which attempted a connected narrative embodying the dispersed data with any comments that modern scholarship had produced with regard to them. In a way it was true that his paper did not give much that was entirely new but he claimed that it was more detailed and complete than the previous notices of Gāwān hitherto published.

The following exhibits were shown and commented upon :—

1. S. L. HORA.—*An interesting Implement for Mud-fishing from Uttarbhag, Lower Bengal.*

Recently, an article on 'Mud-fishing in Lower Bengal' was published in the *Journal* of the Society. It may be recalled that in the various devices described therein fishes were collected by hand from semi-liquid mud. This method may be practicable in small fisheries, but when bigger areas are drained off for fishing purposes, a circular basket of the usual material and make, about 9½ inches in diameter and 23 inches in total length, is used. One end of the basket is open and the mouth is strengthened by a circular band of broad bamboo-strips. At a distance of about 16 inches from the mouth, there is another band of bamboo-strips, after which the split-bamboo sticks are pulled together and secured by a loop of string. The loop is fastened to the nearest band. In this way, the other end of the basket is closed and made to serve as a handle for manipulating the basket.

The split-bamboo sticks, which run lengthwise, are about half an inch apart so that when the open end is dragged through mud, it passes out through the wide spaces and only the fish are trapped inside the basket. The author is given to understand that it is a very effective implement for mud-fishing and that with its help large quantities of *Jiol Machh* (Live Fish) are captured from marshy areas in Lower Bengal.

Mr. Van Manen enquired whether the size of the mazes of the basket was so calculated that small fish of no economic importance should escape, and what was the average size of the fish caught.

In reply to Mr. Van Manen's enquiry Dr. Hora stated that the implement was not meant for catching small fish, such as Putiya (*Barilius* spp.), but for specimens of about 4 inches to 1 foot in length. The interspaces between the split-bamboo sticks are sufficiently wide to allow small fish to pass out along with mud. *Koi machh* of about 6 inches in length were plentiful at Uttarbhag and these had presumably been collected by an implement of this type.

Mr. I. S. K. Ghuznavi remarked that the use of the appliance was principally to avoid stings of *Jiol Singi māchh* and *Māgur*, etc., when seeking for them in semi-fluid mud where they cannot be caught with a net.

2. SHARADA PRASAD.—*Two Sculptural Fragments from Central India.*

(1) Head of a deity, perhaps Viṣṇu. Probable find-place Sohagpur, site of ruined Chedi temples, South Rewa Baghelkhand. Possibly of the late mediæval period. The elaborate *Kirita* 'crown', the heavy pendant in the elongated ear (the other ear is missing), and the thick lower lip are among the remarkable features conforming to the Gupta style. The half-closed eyes suggest the meditative mood. The tranquil expression of the face is highly impressive.

(2) Head of an equestrian statue. Discovered in a forest 30 miles south-west of Satna. Date c. A.D. 1700. The grotesque but vigorous face presumably represents a Gond Chief. Similar images are known to be worshipped among the Gonds under the name of Bara Deva. An entire specimen is found in the Lal Bihari Memorial Collection, where the Chief rides a horse.



APRIL, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 1st, at 5-30 P.M.

PRESENT.

L. L. FERMOR, Esq., O.B.E., A.R.S.M., D.Sc., F.G.S., M.INST.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.	Ghose, Mr. T. P.
Brahmachari, Sir U. N.	Hobbs, Mr. H.
Calder, Mr. C. C.	Hora, Dr. S. L.
Chanda, R. B. R.	Hosain, Dr. M. Hidayat
Chatterjee, Mr. P. P.	Jack. The Hon'ble Mr. Justice R. E.
Dey, Mr. Mukul	Manen, Mr. Johan van
Ezra, Sir David	Prashad, Dr. Baini
Gee, Mr. E. R.	Rahman, Mr. S. K.
Ghose, The Hon'ble Mr. Justice M. C.	Roy, Mr. Singh

Visitors :

Bose, Mr. H. K.	Chhabra, Dr. B. Ch.
	Fermor, Mrs.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of five presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that there had been no applications for membership, since the previous meeting.

The General Secretary reported the following loss of membership since the previous meeting, by death :—

(1) Dr. Ganesh Prasad (An Ordinary Member, 1935).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(5) Sivapada Bhattacharyya (An Ordinary Member, 1922).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that :

(1) Mr. Justice C. O. Remfry (Elected on 3-12-34),

had withdrawn his application, since the previous meeting.

The Chairman announced that no meeting of the Medical Section had been arranged to be held during the current month.

The following exhibit was shown and commented upon :—

1. BAINI PRASHAD.—*Ethnological Specimens from the Naga Hills, Assam.*

During the course of a zoological tour about the end of February of this year in the Naga Hills, Assam, the opportunity was taken to collect a few ethnological specimens of this interesting group of tribes.

There is a strip of irregular hills running down from the Himalayas separating Assam and Bengal from Burma. The River Brahmaputra at the northern end of these broken ranges of hills makes a deep inroad into the hills, and it is in the hills generally known as the Naga Hills and which are situated immediately to the south of the encroaching valley referred to above that the Naga tribes have their present home. Starting from Kohima, the headquarters of the Naga Hills and of the Angami tribe, the tour extended through the Sema area to Mokokchung which may roughly be taken as the junction of the Sema and the Ao tribal areas. *En passant* it may be mentioned that Mokokchung is the Sub-Divisional headquarters and second administrative town of the whole area. From Mokokchung the party travelled through the Ao country to Nakachari railway station in the Sibsagar District and it was during this tour that the collection referred to above was made.

The exhibits consist of samples of dress of both men and women of the three tribes, samples of their *daos* and spears, a few specimens of *dao*-holders and three interesting types of beer-drinking mugs. In addition effigies of human and *mithan* heads collected in the area are also exhibited.

DR. PRASHAD said :—

Opportunity was taken by me and my colleague, Dr. B. N. Chopra during the course of a zoological tour in the Naga Hills last February to collect a few ethnological specimens, which appeared to have some interest for us amateurs, from the three tribes of Nagas through whose territory we travelled.

Before explaining the exhibits it would be useful to give a short account of the country and the people visited by us. Running down from the Himalayas and separating Assam and Bengal from Burma is a fairly broad strip of irregular hills. The River Brahmaputra at the northern end of those broken ranges of hills makes a deep inroad into the hills resulting in a valley, and it is in the hills situated immediately to the south of this encroaching valley and generally known as the Naga Hills that the Naga tribes have their present home. The Naga Hills are directly under the administration of the Government of Assam and are administered as a separate district under a Deputy Commissioner. The administration of this area is unique, in that there is no police, no pleaders or the extra-heavy machinery of administration. The Deputy Commissioner and the Sub-Divisional Officer with the help of a number of *Dobhasis* or interpreters successfully carry on the entire administration of the area.

Starting from Kohima, which is the headquarters of the Naga Hills district and which small town lies between the Manipur railway station on the Assam-Bengal Railways and Manipur town, we travelled through the hills inhabited by the Angami and the Sema Nagas, to Mokokechung which is the second administrative town of the district; Mokokechung also marks the junction of the Sema and the Ao tribal areas. From Mokokechung we travelled through the Ao country to Nakachari railway station in the Sibsagar District, and then entrained back for Calcutta.

It would be presumptuous on my part to claim anything but an amateur's knowledge gained firsthand during this short tour of this interesting group of tribes, the Angami, the Sema and the Ao Nagas, during the three weeks or so which we spent in this part of the country. Detailed accounts of the first two tribes, the Angami and the Sema, have been published by Dr. J. H. Hutton, at present Deputy Commissioner of the Naga Hills and a world-renowned authority on the Nagas, in the series of monographs on the primitive tribes of Assam, while two monographs on the Ao Nagas have been published by Dr. W. C. Smith and Mr. J. P. Mills. These four volumes have been of very great help to me in understanding the social life and customs of the three tribes.

Dr. Hutton originally derived the word 'Naga' from the Sanskrit 'Nag', but later in view of the fact that Ptolmey in the 3rd or 4th Century A.D. and Shihabuddin Tahish in the 16th Century both speak of Nagas as 'Nanga' or naked, he adopted the Sanskrit word 'Nagna' as the derivative of Naga. He, however, added that as the Assamese call them Naga, he is doubtful if this origin is correct, as he believes that both Ptolmey and Shihabuddin's derivation of Naga from Nanga may be due to their informers knowing Urdu only, thus leading these two authors to jump to the conclusion that 'Naga' is derived from 'Nanga'.

I do not propose to give you any detailed account of the three tribes, but a reference may be made to the fact that in the earlier days before the area came under British administration the Nagas were great head-hunters and relics of this custom are today to be found in the fact that they hang outside their houses heads of any animals which they may have killed in hunting or in chase. As human heads are impossible to obtain these days, these interesting people have taken to making effigies in clay of human heads, one of which is being exhibited today. The poorer folks who are even unable to obtain the heads of *mithans*, make them out of the sternal bones of fowls in which the horns are made of pieces of wood stuck through the sternum.

The dress of these people is very simple and both for males and females consists of a loin cloth which is either worn in the form of a kilt as in the case of the Angamis and women of all the three tribes, or as a flap known as the 'langta' as worn by the males of the Sema and the Ao tribes. There is in addition a larger piece of cloth worn in the form of a 'chaddur' over the shoulders. Samples of these cloths of different types are exhibited. The interesting point about the cloths of different types is the variety

and richness of colour, but unfortunately in the areas under the influence of the Christian missions these richly coloured cloths are being replaced by drab, dark white or khaki.

The Nagas are great beer-drinkers, except in the areas under the influence of Christian missions and have both simple and elaborately worked beer-drinking mugs. *En passant* it may be mentioned that beer is a light, fermented liquid made by the Nagas themselves from rice. Their mugs are usually made out of a thick species of bamboo, which is locally quite plentiful. These vary from a very simple type made only of a peeled internode of bamboo to a highly polished and worked elongated type as made by the Chung tribe. Another interesting type of mug which was obtained at Chonglymsen and which is made of clay in the form of a highly elaborate jar with a perforated top. In addition some of the Nagas use the horn cores of *mithans* as their beer mugs. Almost all of them use thin hollow bamboo sticks for sucking the beer in the same way as the more civilized nations use straws nowadays. Some spears and *Daos* of the Nagas collected in the area are also exhibited.

In conclusion I have to express my very great indebtedness to Dr. J. H. Hutton, Mr. T. C. D. Lambert and their Staff for making all arrangements for my tour. My thanks are also due to my colleague Dr. B. N. Chopra for help in collecting the material exhibited.

Dr. Hora agreed that the Naga Hills constitute a wonderful place for ethnologists. He recalled his visit to the Naga Hills and the Manipur valley in 1920 with the late Dr. N. Annandale. His own experience corroborated the remarks made by Dr. Prashad about the distinctive dress and implements of warfare used by the various Naga tribes. He noticed, however, that the colour patterns and designs on the cloths had changed somewhat during the last 15 years. He praised the chastity of the Naga women and the good quality of the Naga beer.

Mr. Hobbs said :—

The Nagas much resemble the Scots.

Their spear shafts are decorated with human hair or fine cane, woven in different colours and designs. They wear a kilt, and play the pipes.

Forty odd years ago I was shooting in the vicinity of the Naga country. One of the men collapsed. The planter in charge of the party sent for assistance to a Naga village. The chief sent a woman who, after the man had been placed in a basket, carried him up the hill as though he was an infant.

The Nagas are regardful of the morality of their women, and no wise man would interfere with them. A planter friend of mine had an assistant, a splendid physical specimen, tall, blonde and brawny. One evening a party of Nagas was walking in file past this young fellow's bungalow. The women as usual bringing up the rear. One of the girls took him in at a glance. That night she came from her village, ten miles away, to the young man's bungalow. Very wisely he took her to the manager's wife who took care of her. About noon the next day the Nagas took her away. She came the next night and the same thing happened. The third time she did this the Nagas gave her a tremendous thrashing, which brought the Naga love story to an end.

A reference by Dr. Hora to motor cars caused me to recall a story told by Mr. Little, Chief Engineer, P.W.D., Assam. He took the first motor car, a Ford, into the Naga country. The Nagas were profoundly impressed. They looked at it sideways, in front, and from the rear; crawled underneath it; sat inside and on the bonnet. Then held a long pow vow before telling Little: 'It is a very good gharry, very good indeed, but nothing like so good as a steam roller.'

Dr. B. Ch. Ohhabra said :—

I would draw attention to the term 'Nāga' as the designation of a tribe as well as of a mountain. The form 'Nānga' also occurs. As

regards its derivation, it is connected with the Sanskrit words *nāga* 'serpent' and *nagna*, 'naked'. Most people prefer the latter explanation, perhaps thinking that it refers to the habit of the people, going about naked or almost naked.

The term *Nāga* can also be a corrupted form of the Sanskrit word *nāga*, as the vernacular words *meñh*, *māñh* and *bāñh* from Sanskrit *megha*, *māgha* and *bāhu* respectively.

I may point out that Indian History knows of *Nāgas* as ruling dynasties in ancient times. The *Bhāraṣivas*, for instance, are also known as the *Nāgas*. In Further India certain royal dynasties trace their origin from a *Nāgi* princess.

In view of these considerations I would ask whether we have not in the present term a relic of a forgotten dynasty called the *nāgas*.

Rai Bahadur *Ramaprasad Chanda* remarked :—

The Sanskrit word *Nagna*, naked, does not only mean those who go naked, but also persons with inferior culture or false religion.

Dr. *Prashad* replied to the various speakers.

Mr. *Hobbs* observed :—

Dr. *Prashad*, in the course of his summing up denied my statement about 'bagpipes'. I would point out that I said 'pipes', because the tone and the irregular musical intervals are, or were, reminiscent of the Scottish pipes.



MAY, 1935.

On account of the Royal Jubilee celebrations no Ordinary Monthly Meeting was held.



JUNE, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 3rd, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, K.T., F.Z.S., Vice-President, in the Chair.

Members :

Bent, Mr. W. A.
Bose, Mr. M. M.
Chanda, R.B. R.

Chattopadhyaya, Mr. K. P.
Dey, Mr. Mukul
Manen, Mr. Johan van
Singh, Mr. Sarabjit

Visitors :

Ambler, Capt. G. M.

Chatterjee, Dr. Marcel

The minutes of the last meeting were read and confirmed.

Before proceeding to the further business of the evening the Chairman drew the attention of the meeting to the very pleasant

fact that in the Honours List published at the occasion of His Majesty's birthday, the name of the President of the Asiatic Society of Bengal was included as the recipient of a Knighthood. He felt that every member of the Society would feel grateful on account of the honour bestowed on Dr. L. L. Fermor and he proposed that the General Secretary should send a telegram of congratulation to Sir Lewis Fermor on behalf of the meeting.

The proposal was accepted by acclamation.

The General Secretary reported receipt of twelve presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for election as Ordinary Members :—

(15) *Singhania, Raghunath Prasad*, Vidyabhusan-Visarad, Secretary, Rajasthan Research Society, 27, Baranoshi Ghose Street, Simla, Calcutta.

Proposer : O. C. Gangoly.

Seconder : R. Chanda.

(16) *Sen, Bhupati Mohan*, M.Sc. (Cal.), M.A. (Cantab.), Indian Educational Service, Principal, Presidency College, 20-A, Mayfair, Ballygunge, Calcutta.

Proposer : Sir U. N. Brahmachari.

Seconder : S. L. Hora.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(2) H. A. Giles (An Honorary Fellow, 1917).

(3) Rev. H. Hosten, S.J. (An Associate Member, 1910).

(4) Vishwanath Vasu (An Ordinary Member, 1934).

(5) L. N. Rai (An Ordinary Member, 1928).

(6) A. G. Lunan (An Ordinary Member, 1929).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(6) Saradindu Mukherjee (An Ordinary Member, 1924).

(7) A. N. Mukherjee (An Ordinary Member, 1926).

(8) Rev. F. B. Fisher (An Ordinary Member, 1929).

(9) S. K. Ahmad (An Ordinary Member, 1930).

(10) Bhabadeb Mookerjee (An Ordinary Member, 1928).

(11) Sir C. V. Raman (An Ordinary Fellow, 1925).

(12) Nilmoni Chakravarti (An Ordinary Member, 1909).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members would be suspended as defaulters within the Society's building for the period of a month to be removed from the Society's registers for

non-payment unless the amount due be paid before the next Ordinary Monthly Meeting :—

G. N. Bose Mullick
G. S. Kewal
P. V. Ramanujaswami
D. L. Clendenin
Raja K. Deb, Rai Mahasai

Dr. Mircea Eliade
S. B. S. W. Laden La
S. K. Roy
P. K. Das
J. J. Mahudavala

In accordance with Rule 48(a), the General Secretary reported that the Council, since the last Ordinary Monthly Meeting, had adopted the following Regulations regarding the award of 'Pramatha Nath Bose Memorial Medal'.

REGULATIONS REGARDING THE AWARD OF THE PRAMATHA NATH BOSE MEMORIAL MEDAL.

(1) The Medal shall be awarded every three years at the Ordinary Annual Meeting of the Asiatic Society of Bengal in February.

(2) The Medal shall be bestowed on a person who, in the opinion of the Council has made conspicuously important contributions to practical or theoretical Geology with special reference to Asia.

(3) The General Secretary shall at a meeting of the Council preceding the Ordinary Meeting in November place before the meeting the names of at least three Geological Experts and three members of the Society for consideration.

The Council shall then proceed to appoint an Advisory Board of not less than three members selected from the list placed before them provided that the Council, for special reasons, shall be entitled to select persons outside the list. The Advisory Board shall always include two Geological Experts and the General Secretary shall be an ex-officio member of the Board.

(4) The Advisory Board shall be termed 'The Pramatha Nath Bose Memorial Medal Advisory Board'. The Board shall appoint a Chairman from amongst its members who shall have a casting vote (in addition to his own vote) in the event of the number of votes being equally divided.

(5) The General Secretary shall call a meeting of the Advisory Board on the first convenient date subsequent to the first Monday of December, at the same time requesting members to bring with them to the meeting a detailed statement of the work or attainments of such candidates as they may wish to propose. The General Secretary shall also place before the Board for consideration detailed statements of the work or attainments of any other candidate submitted by any Fellow of the Society. The Board shall make such arrangements as may be necessary for the selection of a name to be submitted to the Council at their December meeting.

(6) Notwithstanding anything determined in these Regulations, it shall be within the competence of the Board to abstain from the selection of any name to be submitted for the year and to report accordingly to the Council, in which case, provided the Council concurs, the award for the year shall lapse and shall be postponed to the next following year to be determined in the manner prescribed in the above rules, and, if necessary, deferred again year by year, until an award be made, the period mentioned in Rule 1 in such case to be reckoned from the date of the award.

The following papers were presented :—

1. JOGENDRA CHANDRA GHOSH.—*Ekānamśā and Subhadrā*.

The author has made an attempt in this paper to answer (1) How and when Durgā came to be called Ekānamśā : (2) How she

came to be associated with and worshipped along with Baladeva and Kṛṣṇa ; and (3) How and when her name came to be changed to Subhadrā.

Etymology of the word Ekānamśā. Mention of Ekānamśā in iconography in the *Bṛhatsamhitā*. Varāhamihira's description relating to Ekānamśā in his chapter on Pratiṁlākṣaṇa.

Criticism of Rai Bahadur Prayag Dayal's identification of Lakṣmaṇa in his account of *Important Sculptures added to the Provincial Museum, Lucknow, during the last Decade*, in the *Journal of the U.P. Historical Society*, Vol. VIII, Part II, 1934.

Conclusions.

In the absence of the author the paper was taken as read.

2. K. P. CHATTOPADHYAY.—*The Caḍak Festival*.

The Caḍak festival is associated with the vernal equinox. The ceremony begins a week before the end of the month of Caitra (March-April) and culminates on the last day of that month, which also marks the close of the year in Bengal. This date is known as the day of the passing of the sun into Aries (Mahāviṣuva saṁkrānti). Actually it comes after the day of the vernal equinox by about three weeks. The name, however, indicates clearly the association with the equinoctial day which once did coincide with this date. The end of the year in Bengal appears in course of time to have lagged behind to this extent. The traditional origin of the festival is that on this date king Vāṇa in order to please Mahādeva, drew blood from his body as an offering and propitiated him by dances (along with friends) which are favoured by him.

Conclusion : The Māṇḍa festival, the Caḍak and Dharma worship are closely connected, identical in many respects and have a common origin. They are all based on a belief in resurrection, or coming to life after death, and are intended to be celebrated annually to secure the return to life of the deceased members of the community.

Mr. Chattopadhyay explained that for his communication to the meeting he would limit himself to two or three salient points without going into details which the paper, when printed, would place before the readers. He would only limit himself to the following remarks.

In a previous paper he had published in the *Journal* of the Society a description of the Māṇḍa festival as it is found in Chota Nagpur. The Caḍak festival, now described, is comparable to the Māṇḍa Celebration. The latter was observed in 1934 during the last week of Caitra in different places in Calcutta and suburbs. In this Caḍak festival the deity worshipped is Śiva, or Mahādeva. The place of worship is generally a temporary thatched hut facing the south. An earthen image of a crocodile with a male child between its jaws is also built on the ground to the east of the hut. The crocodile is associated with the offerings to the Sun. The following special ceremonies are performed by the devotees on different days :—

- (1) swinging over fire,
- (2) falling on thorns,

- (3) jumping on knives,
- (4) piercing the skin, with arrows,
- (5) the marriage of Śiva ; and the fire dance,
- (6) swinging on the Caḍak tree,
- (7) the propitiation of the resuscitated ghosts.

He also wished to give expression to his opinion that the festival was of exceedingly remote origin.

Mr. M. M. Bose remarked :—

The word 'Carak', it appears, is derived from the Sanskrit 'Cakra' or wheel, that is 'wheel of time'. The festival is connected with the end of the old year and the beginning of the new year. A year means a single revolution of the wheel of time and this is celebrated by revolving the 'carak' wheel, and Śiva or Mahākāla—the great God of Time—God of destruction and resurrection, is worshipped in this connection. In several parts of India the year ends with Kārtika Amāvasyā—when the Dīpāvalī festival is celebrated and Mahākālī or the great Goddess of Time is worshipped. I doubt very much if these festivals are of non-Aryan origin as suggested by the lecturer. More proofs are necessary before this suggestion can be accepted.

Mr. Van Manen inquired whether the speaker meant to imply that he regarded the ceremony as of aboriginal origin, adapted to Hinduism, or as of ancient Hinduic origin ?

The speaker replied that he considered the origin to be pre-Vedic, but that he regarded the expression Hinduism as an undefined term and so preferred to let the matter remain where it was.

3. G. M. AMBLER.—*A Vocabulary of the Mawken, Salon, or Sea-Gipsy Language of the Mergui Archipelago.*

An attempt has been made to draw up a vocabulary of the Mawken language of sea-gipsies who inhabit the Mergui Archipelago, where the author has collected materials during his visits in 1932-33. The materials prepared by him were collected and tested with the help of two Mawkens who were members of the crew of the author's vessel.

The Mergui Archipelago, on the coast of Lower Burma, consists of 804 islands varying in size. The Salons (Mawkens) are a very primitive people who inhabit this archipelago and are gradually dying out. Till now the only records of them have been obtained from the 'civilized' members of the tribe, and very little appears to have been published on this insignificant group of Indonesians and their language.

The vocabulary is a double one: Salon-English, and English-Salon. It contains some 400 words apart from the numerals, the names of relationships and a number of short sentences.

A brief introductory description of the Mergui Archipelago is added.

The speaker invited his audience to accompany him to the coast of Lower Burma, from Tavoy, which lies south of Moulmein, to VICTORIA POINT, the most southerly point of Burma which here meets the north-west frontier of Siam.

In this area are three notable ports of call for regular steamship services :—

Tavoy : a port situated, inland, up the Tavoy river from where interior produce is exported.

Mergui : a coastal port, headquarters of the Mergui administrative division, noted for its pearl fisheries, tin and general produce.

Victoria Point : the most southernly port in Burma, with an aerodrome and airways service.

Along this coast, and in the above area is a group of over 800 islands, from mere rocky pinnacles rising sheer out of the sea, to substantial islands like St. Matthews, which is 16 miles long by 6 miles broad, with a mountain peak 3,000 feet high near the south centre ; Kisseraing Island, 18 miles by 10 miles ; the most fertile island in the Group ; Elphinstone Island, 12 miles by 6 miles.

The majority of the islands are covered with dense, tropical virgin jungle and are uninhabited.

These islands are known as the Mergui Archipelago, and it is in this area that this strange tribe is found, variously called 'Selung', 'Salon', 'Sea-Gipsy', 'Orang Laut', 'Orang Sletar', 'Orang Kayang'. In their own language these people term themselves 'Mawkhen' which, literally translated means the 'Drowned people'.

These Mawkhen live all their lives in boats called by them 'Kabang', of most original construction unlike any type of vessel to which we are accustomed.

A log is hollowed out to form the keel, and the sides are heightened by the addition of palm stems and bamboos, laid horizontally along the gunwale, the whole lashed with jungle fibre and caulked with the nest of the dammer bee worked up with Gurjan oil and rosin, all locally available in the forest. Not a single iron nail is used throughout.

In these Kabangs the Mawkhen roam from island to island, fishing and occasionally hunting deer and pig with the aid of the innumerable pariah dogs that live with them in their boats.

The Mawkhens do not practice agriculture. They eke out their diet of fish and flesh by the addition of roots and herbs of which there is a plentiful supply on the islands.

The Mawkhens do not build houses, except a few who have been induced to settle in Victoria Point, who have rough sheds on stilt, in the tidal flats. For shelter they have mats made of the dunnee palm which they erect on their boats or on shore when necessary.

The Tribal Classification has not yet been definitely settled, though, for the present these people are classified as Austronesians.

The Mawkhen language does not appear to bear affinity to any known language but has a number of words that are evidently borrowed from Malay, Siamese and the Chams of Cambodia.

These people are extremely timid and at a very primitive stage of civilization. They have quite a wealth of folk-lore but no real history. They believe in ghosts, evil spirits and the continuation of life after death on another planet. They have a very hazy haphazard idea of a Supreme Being whom they term Thoida, but appear to have no real form of worship. They stand in great awe of their witch doctors (Micha-Blen) and of the magic spells they are supposed to be able to cast. The speaker stated that he intended shortly to go out again to obtain fuller details of their folk-lore, customs, and language.

After the reading of the papers, the following exhibit was shown and commented upon :—

1. SARABJIT SINGH.—*Tobacco Pipes and other objects from the Naga Hills, Assam.*

At the last meeting of the Society Dr. Bains Prashad exhibited ethnological specimens from the Naga Hills and made some observations on certain tribes of the Nagas and the country inhabited by them. The present exhibitor accompanied Dr. Prashad in his tour to the Naga country with the object of making an ethnological collection and studying the physical anthropology of the people.

The specimens of tobacco pipes exhibited were procured from the Angami, Sema, and Ao tribes. Samples of ear-ornaments of men and women, as well as two interesting types of musical instruments were also exhibited.

Mr. Singh explained his exhibit as follows :—

Most Nagas, whether men or women, are inveterate smokers, and even children start smoking at a fairly early age. A specimen of the plant, the leaves of which are generally used for smoking by the Nagas, was kindly identified by the authorities of the Botanical Survey of India as *Nicotiana tabacum* Linn. The leaves of this plant are prepared for smoking by being half dried in the sun and are thereafter rolled up with the feet into thin bundles. Such crudely prepared tobacco is kept alight by means of a piece of live charcoal placed in the bowl of the pipe. In general two types of smoking are practised by the Nagas : (1) dry smoking, and (2) smoking through water. In the latter case the smoke, before being inhaled, passes through a bowl of water which is attached at the base of the smoking pipe.

The simplest and most common type of dry-smoking pipe consists of a small piece of bamboo cut immediately below a node : this serves as the bowl for the tobacco, while another thin bamboo stem fixed into it at an angle slightly less than a right angle serves as the mouth-piece through which the smoke is inhaled. Amongst the Ao Nagas the mouth-piece stem is often decorated with bindings of cane, sometimes dyed red and woven up into elaborate patterns. The pipes of the Aos and Semas differ both in design and form, but the basic idea is identical.

The eastern Angamis and Semas generally use a pipe in which the smoke, before being inhaled, filters through a bowl of water. The receptacle for the tobacco is carved out of a soft grey stone and this is attached to the vertical bamboo or wooden stem fixed into the water receptacle at the base. The main stem dips into the water, while the side mouth-piece, through which the smoke is inhaled, sticks out just above the water level. The majority of the nicotine content of the smoke as it passes through the water is held back, and the water, therefore, before long becomes quite discoloured and saturated with nicotine. This nicotine water is later taken out and stored in bamboo or gourd phials which are carried by the Nagas tucked in their waist belts. Nagas take sips of this nicotine beverage from time to time while working in the rice fields or marching through the country. *En passant* it may be mentioned that it is one of the most important duties of the housewives to collect nicotine water for their husbands. According to the speaker's personal observation the liquid is never swallowed, but another observer records differently. According to Col. Wood, I.M.S. (*Journal of the Natural History Society, Darjeeling*) 'this nicotine drinking seems to have no deteriorating effect on the system except that it pigments the skin'. The skin of an addict to nicotine drinking, according to Col. Wood, takes on a complexion approaching the colour of a good, old seasoned meerschaum. In some cases for maturing the nicotine water tobacco ash from the bowl is also added to the water in the bowl, as it is believed that this makes the nicotine water ready for use in a much shorter time.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that no meeting of the Medical Section had been arranged to be held during the current month.

JULY, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 1st, at 5-30 P.M.,

PRESENT.

SIR DAVID EZRA, KT., F.Z.S., Vice-President, in the Chair.

Members :

Bogdanov, Mr. L.	Groth, Mr. E. M.
Bose, Mr. M. M.	Heron, Dr. A. M.
Chakladar, Mr. H. C.	Hobbs, Mr. H.
Chakravarti, Mr. C.	Ledrus, Rev. M., S.J.
Chattopadhyay, Mr. K. P.	Manen, Mr. Johan van
Driver, Mr. D. C.	Singh, Mr. S.
	Vidyabhusana, Prof. A. C.

Visitors :

Banerjee, Mr. Kalachand	Das Gupta, Mr. C. C.
	Giskra, Baroness

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of six presentations of books, etc., which had been placed on the table for inspection.

The General Secretary reported that there had been no applications for membership, since the previous meeting.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

- (13) Mathura Nath Mitra (An Ordinary Member, 1929).
- (14) Sir J. C. Coyajee (An Ordinary Member, 1925).
- (15) R. B. Khambata (An Ordinary Member, 1926).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

In accordance with Rule 38, the General Secretary announced that the names of the following ten Ordinary Members, who had, since the last meeting, been suspended as defaulters within the Society's building, had now been removed as defaulters from the Society's registers for non-payment of dues :—

G. N. Bose-Mullick
 G. S. Kewal
 P. V. Ramanujaswami
 Raja K. Deb, Rai Mahasai
 D. L. Clendenin

Mircea Eliade
 S.B. S. W. Laden La
 S. K. Roy
 P. K. Das
 J. J. Mahudavala

The following papers were presented :—

1. S. N. CHAKRAVARTI.—*Two Inscriptions from Barakar.*

These two inscriptions are found on the right door-jamb of the Gaṇeśa temple in the Begunia group of four temples at Barakar in the Burdwan District. Previous literature. Dates Śaka 1382=A.D. 1461, and Śaka 1768=1846. The author believes that on palæographical grounds Śaka 1468 or 1498 seems to be preferred. Detailed palæographical discussion. Transcription. Translation.

In the absence of the author the paper was taken as read.

2. K. P. CHATTOPADHYAY.—*History of Indian Social Organization.*

If the social organization of India be examined, the first thing that strikes the observer is the peculiar system of endogamy combined with exogamy, running through the whole system, among the vast population of the country. It is also noted at once that the giving of food and drink or acceptance thereof, between different social groups, depends on certain ideas of purity associated with the groups.

Some people, it will be found, are considered very pure ; and food and drink touched by them, or prepared by them, are accepted by all (with a few exceptions). They are the Brahmans proper.

These people in their turn accept water and certain kinds of food from only some of the other social units, called jāti or castes. These other groups are in general served by the Brahmans, as priests, though not by their highest sub-division.

There are other castes from which Brahmans do not accept food or drink but which at the same time are not regarded as very impure, and are entitled to certain social privileges. Finally there are the castes which are considered vile.

In general, it is found that the artisans and traders belong to the group which is considered fairly pure by the Brahmans ; while the lowest group is formed by scavengers, menials, and people who follow such humble occupations as basket-making.

In order to explain, in the scientific sense, how such a system might have risen, we shall have to examine, in detail, the entire social organization. We shall also have to investigate how far the researches of ancient and modern workers in this field have contributed to clarify the issues.

The author therefore examines the various theories concerning the origin of castes and also the factors in caste development, as follows :—

The major conclusions may be briefly summarized as follows :—

- (i) An immigration of one or more cultured peoples, laying stress on household exogamy, and not on paternity, leading to a growth of matrilineal society of different types under different conditions, with anomalous kin marriage.
- (ii) Interaction of matrilineal people from different areas leading to further changes.
- (iii) Immigration of a patrilineal people leading to cross-cousin marriage, along with mother-right but giving an appearance of father-right in case of patrilocal residence ; and elsewhere imparting strongly patrilineal traditions.
- (iv) A final cultural domination by a patriarchal people.

Alliances between different groups, and bitter struggles, appear to have taken place before some kind of equilibrium was reached, and the caste system with its complex structure evolved as a stable form of social organization.

Mr. K. P. Chattopadhyay stated that the paper was too big to be read out in its entirety. He would therefore summarize the arguments and conclusions.

The characteristics of Indian caste had to some extent been noted in the agenda paper. The writer pointed out that the caste system shows two kinds of divisions :—

1. A horizontal stratification finding expression in barriers to (a) marriage, (b) taking food of certain kinds, and (c) accepting water from those at lower levels. Certain occupations are restricted to each of the levels.

2. A vertical division which splits up each horizontal stratum into a number of compartments separated by bars against (a) intermarriage and to some extent (b) interdining. Certain occupations are definitely reserved for certain of these groups.

The early hypothesis put forward by the authors of the Hindu Dharmaśāstras was noted. Next the theories of modern writers like Ibbetson, Nesfield, Risley and Sénart were discussed and criticized. Ibbetson failed to explain how the system grew up. He merely noted the tribal basis of some of the castes in the Punjab, and ascribed the complications of the caste hierarchy to Brahmanic and priestly interference. Nesfield attributed the origin of the caste system to the evolution of the arts. He failed to note that some of the arts and crafts practised in the lower strata of society are quite complicated ; also the order of precedence varies from province to province. Other features of the caste system were not taken into account, or simply ascribed to priestly influence. Risley tried to explain the caste organization by the colour difference and consequent (alleged) enmity between the pre-vedic invaders and the earlier dark-skinned and uncultured people. Risley's conclusions are supported neither by the rules governing intermarriage or intermixture of races as found in the Dharmaśāstras, nor by the physical measurements of ethnic provinces. The instance of a highly developed

pre-vedic culture in India was unknown to him. The author further pointed out that a stream of cultured immigrants, of fair skin and fine features, had penetrated to Nepal and built up the Newar culture, passing through Northern India and mixing with the earlier black-skinned people on the way. Yet caste had not developed. Further, the colour difference was sharper in Africa. Yet the home of caste was India, not Africa.

M. S  nart took into account the different viewpoints of these earlier theorists and also brought to bear on the problem his knowledge of early European social organizations and practices. He suggested that the uniqueness of caste in India was due to the physical isolation of the country, combined with the other factors. Parallel developments had taken place in early Greece and Rome but the social groups had not crystallized into castes. In India, the vastness of the country and the physical isolation of the peninsula, led to a rigid form of society.

S  nart overlooked the existence of a pre-vedic high level of culture ; and the fact that the caste structure, while similar in general nature, varies somewhat peculiarly in the different provinces with regard to purity or impurity of certain groups of castes. The fact that caste was not formed in Nepal or other outlying areas, indicates that physical isolation is not sufficient to lead to caste formation under the conditions noted by S  nart.

Recently Dr. Hutton has put forward the view that the necessary factor for caste segregation is to be found in special magical qualities peculiar to certain social groups as found in the Naga Hills. He has concluded that the fear of *mana* (as he terms it) of one group working harm on, or neutralizing, the *mana* of another group, has been responsible for isolation of castes in India. The author however pointed out, by quoting from the writings of Dr. Hutton himself, that the said social groups in the Naga Hills have no bar on intermarriage or interdining. The bar is with regard to occupation. The facts noted by Dr. Hutton are linked up really with the social unit "the household" and were explained by the author on the basis of household exogamy. The developed forms of exactly similar customs in orthodox Hindu society were noted and it was shown how both groups of facts fit in the same general explanation, which is different from that of Dr. Hutton.

The author then considered the different factors that promote solidarity of social groups or lead to their disruption and isolation in the case of contact of people. After discussion the various factors, (a) economic, (b) religious, (c) social, and (d) political, the author came to the conclusion that the economic rivalry of two or more different sets of cultured immigrants, competing for dominance, and influence with the earliest or earlier comparatively uncultured people, has been the most important factor in the isolation of social groups in India. If the competing group had, each of them, superior knowledge of certain arts and crafts, these would be jealously guarded; intermarriage and interdining among the groups of their friends, the semi-civilized people of mixed descent, would be discouraged (and also abstained from) by the groups themselves in their own interest. If in addition the gods were different, the rules of sexual relations opposed, and the food also varied, the contempt and hatred for each other arising out of economic rivalry would be further intensified and would make social isolation complete. Difference of colour and the vastness of the country would be additional factors promoting it.

When some sort of equilibrium was reached, a survey would be made. To such an observer of ancient times, the important factor in determining social position would be (a) the affiliation to this or that social group of cultured immigrants, and (b) admixture of blood in patrilineal or matrilineal line, with aborigines or immigrants. These questions in fact bulk large in the Hindu *Dharma  stra* in discussions of caste hierarchy.

Further, if one group of immigrants and their friends obtained mastery in one place, and the other group in another, while some kind of

compromise was arrived at in a third area, perhaps in the face of a common enemy, the relative position of the different social groups would vary from one such province to another.

The detailed analysis so far made is in agreement with the theory put forward in this paper. The conclusions regarding immigrations of cultured people and the results of their contact were summarized and were noted in the agenda paper.

Mr. M. M. Bose remarked :—

We are thankful to Mr. Chattopadhyay for taking up such an interesting subject as the history of Indian Social Organization. It is evident from the summary that he has given and from the portions of the paper read out by him that his treatment of the subject has been very ample. It also shows that he is gifted with much power of independent thinking as well as a large fund of imagination. But on such a vast subject there is necessarily much room for difference of opinion. It would not be fair to discuss these differences at this stage. We are eagerly awaiting the publication of his paper and then it will be time to offer any criticisms called for.

3. CHARU CHANDRA DAS GUPTA.—*A few types of Sedentary Games from Bihar.*

The author, while on an archæological tour in Bihar and the United Provinces in 1934, collected accounts of different sedentary games. He briefly describes and discusses eight such games not yet noticed by previous investigators. The names of the games are :—

- | | |
|----------------|---------------------------|
| 1. Bāra-guṭi. | 5. Biś-guṭiyā. |
| 2. Nāo-guṭiyā. | 6. Bāra-guṭiyā. |
| 3. Bāghā-guṭi. | 7. Nāo-guṭiyā-baiṭhānekā. |
| 4. Rām-tir. | 8. Sāt-gharoyā. |

Mr. Das Gupta briefly described the nature of the eight games.

Dr. A. M. Heron remarked :—It may be asked what interest grown up and learned people can have in studying these simple games played by children or simple people. I would like to draw attention to the excellent analysis of what such games are as found in the great *Encyclopædia of Religion and Ethics*. The matter is so well and so tersely put that the extract bears reading out in full. The writer of the article (E. Sidney Hartland) says :—‘A game is an organised occupation, undertaken by two or more persons, the primary intention of which is not utility but pleasure or pastime by means of the exhibition of the skill or good fortune of the players. It proceeds according to definite rules, and sometimes necessitates special instruments or apparatus. Games may be broadly divided into three classes—games of skill, games of chance, and games of imitation. The rules of games of skill are framed to bring out the various qualities, physical, mental, or moral—strength, agility, quickness of the senses, rapidity of calculation and induction, endurance, patience, and so on—of the players. Games of chance, on the other hand, regard only the luck of the players, and are decided by events, such as the fall of dice, over which they have no control. The rules, therefore, are arbitrary conventions, designed to emphasize coincidences. Many games combine the elements of chance and skill in varying proportions. In games of imitation the rules are prescribed by the actions to be imitated—limited, however, by certain conventions appropriate to the circumstances of the players; and the result is measured by the verisimilitude of the performance as thus limited. Such games involve the germ of

Drama. Both in games of chance and in those of skill there is contest. In games of imitation there is often little or none ; and the pleasure sought is attained by co-operation, rhythmic movements, and song.

Games as thus defined are social institutions, owing their origin to the inherent restlessness of human beings and the necessity for constant use and practice in order to promote the development and preservation of their physical, mental, and moral powers. They enter very early into the life of the individual, and are of incalculable value in the training of children for graver pursuits of adult years. To the adult—especially the adult savage—they are little less important ; and from the lowest plane of culture upwards, games either in the form of contest or of rhythmic movement (dances), are among the commonest activities'.

Mr. M. M. Bose said :—

Besides the utility of the games mentioned in the *Encyclopædia of Religion and Ethics* as read out by our learned Chairman, it may be pointed out that they also throw light on the character of the people who play them. They are thus of considerable interest from the Social and Anthropological points of view.

The following communication was made :—

1. JOHAN VAN MANEN.—*The word 常 in the Tao Te King.*

The Tao Te King is perhaps the most subtle Chinese philosophic work. It is small in size, consisting in its various recensions of between about 5300 and 5700 characters. Of these characters 105 account together for nearly 3900 of the total. A careful determination of the value of these 105 characters will furnish the basis for the right understanding of the book.

One of these characters is Ch'ang which occurs 31 times. For this one word even the most qualified translators have used a great number of synonyms.

Julien has : eternal, eternally, constant, constantly, constancy, always, unchangeable and enlightened. Legge has : enduring-and-unchanging, constant, constantly, always, ever, regular-unchanging-rule, in-its-regular-course, invariable, unchanging. Others, such as von Strauss, de Harlez, Parker, Grill, Wilhelm, Wieger, vary similarly or more. The dii minores are generally worse.

The question is to find a single European word which fits all passages.

The fundamental conception seems to be 'invariable (in manifestation)'. Constant in English does not quite fit everywhere but its equivalent in Latin might perhaps do. 'Eternal' goes beyond the meaning, amongst others because there is no question of time, but of manner. A German word that has been suggested is 'beharrlich' (von Strauss, Weiss). A Latin equivalent might perhaps be 'jugis'. A Sanskrit equivalent is 'nitya', though the latter term has also been wrongly confused with eternal or permanent in European translations. A very near English concept is 'steady', though this word is too colloquial for application in all passages. The same applies to German 'fest' or Dutch 'vast'. German stät, stets, beständig,

approach it. Semasiologically or pictographically the Chinese term is probably equivalent to 'standard', but this English word cannot without strain be used in all contexts. What is necessary is to find a term which is the philosophical and solemn equivalent of the more practical and common 'steady' or 'stable', in other words a single term for 'tranquillus sævis in undis', or for 'constancy throughout fleeting and changing appearances'.

Serene and untroubled may also be thought of.

Mr. *Van Manen* said that the problem of translation was a major subject by itself with an extensive literature. He would not set out the theory of this problem but deal only with the specific instance offered by the *Tao Te King*. The subject was thus narrowed to the fourth degree: translation in general; from the Chinese; from an archaic period, about 500 B.C.; of so distinctive and individualistic a writer as *Lao Tszé*. He would for the moment accept the traditional view of the authorship and date of the *Tao Te King*. Since the first anonymous translation into Latin, presumably by a Jesuit priest, and probably dating from about 1788 (a translation not yet published), about 50 European translators have rendered the complete text. Besides, dictionaries, grammars and anthologies, as well as essays and works on Chinese religion, contain a large number of isolated fragments translated in addition.

The translations are of most unequal value and authority. They may be grouped into four main classes. First those of professional sinologists, some 20 in number. Next, those by serious students of religion or philosophy who had studied this special text *ad hoc*, about 12 in number. Thirdly, translators of previous translations from one European language into another, only a few. Fourthly, those of the amateurs, a most diverse group made up by a few serious and capable enthusiasts or dilettantes in the original good sense of the word but containing artists, cranks, idealists, individualists, intuitionists, occultists, phantasts, sentimentalists, syncretists and theosophists, of every hue and quality.

Amongst all these groups there is a bewildering variety of merit and demerit. Not all sinologists had given consistently good work and not all dilettantes consistently bad work. A case in point is where one single non-sinologist had given the correct rendering against a mistaken one of all 49 others, professionals included. Amongst the professionals the speaker preferred on the whole, as a basis for further study, Stanislas Julien (as a grammarian, not as a philosopher), James Legge (for scholarly honesty, but not for beauty or spirit), Carus (for journalistic flair and handy typographical disposition), Richard Wilhelm (for a spiritedness and generally high level of feeling).

The translations of de Harlez and Wiegner he considered as very unequal, free and unreliable in spots, but also containing isolated happy or suggestive renderings. De Groot, great scholar though he was in his own line, has been responsible for some very queer interpretations.

In the second group he found useful matter in von Strauss (many of whose improvements had been lost again by subsequent workers), Grill, Ular (some brilliant isolated points, but, especially in the German edition, a notable attempt to do justice to the rhythmic structure of the text, neglected by nearly all others), and some others.

In the dilettante group the translation by de Pouvoirville (and its subsequent re-translation into Bulgarian) was something between a bad joke and a tragedy; the one by Mac Innes something of a like nature; the one by Dallago haughty and entirely lacking in perspective of the task. From some of the others here and there something useful—perhaps not so very much, but not unimportant—might be gleaned. Konissi's Russian translation was somewhat of curiosity: 'Tolstoi collated my

translation with those in English, German and French, and settled the text of every chapter'.

The artists represented amongst the translators contributed some lessons in the rendering of the formal beauty of the original.

A future serious study of the Tao Te King, after the termination of the first century of European effort at understanding the book, would no longer be able to dispense with a rigidly philological, as against a purely grammatical study of the text. In Chinese philology there was an almost complete absence of what the Germans call philological 'Vorarbeiten', preliminary studies and investigations, with regard to ancient Taoism. Books like Teichmüller's *Neue Studien zur Geschichte der Begriffe* with regard to Heraclitus, do not exist with regard to Lao Tszé.

The surviving remnants of Heraclitus aggregate to perhaps one-fifth of the extent of the Tao Te King. But what a contrast between the nature of the literature concerning Lao Tszé and that concerning Heraclitus! On the one hand a laborious quest for essentials and precise definition, on the other a profusion of polite amiabilities and ethical platitudes, with here and there some historical fact thrown in. In the one case a dialectical and philosophical treatment, on the other a predominantly grammatical one with moralising added. We had, however, not to overlook what von Strauss, Grill and Dvofack have contributed in this direction. Even von Plaenckner's intuitions went in the right direction, however completely his results have been damned by scholarship. Ethically his contribution has value. Borel has done sentimental and artistic justice to some terms, as Haas, Medhurst and others have done theologically. But a complete critical valuation of all workers would lead too far.

As set forth in the preamble to the communication, about one hundred Chinese words constitute the marrow of the Tao Te King. These have to be studied intensively. As a preliminary we need a work like Jacob's concordance to the Upanishads or Haas' concordance to the Bhagavad Gītā. The speaker had compiled such a concordance for himself. There exists a Chinese one which he had not been able to obtain. (Lao chieh Lao, by Ts'ai T'ing-kan, Shanghai, 1922.) He had solved to his satisfaction the specific meaning of a dozen Chinese words in Lao Tszé's usage which had led him to what he considered new and important conclusions. He did not maintain that a Chinese word in the Tao Te King should be indiscriminately or mechanically compared in all its occurrences. There were at least five distinct levels of use of words in the Tao Te King. First, there is the ordinary meaning of ordinary use. Second, there is the modified meaning when used in a binom. For instance it seemed to him, that the whole elaborate discussion concerning the meaning of the

term 無 爲 finds its very simple solution by understanding the binom not as non-action but as quiet, restful, reposeful, or even unobtrusive. Third, there is the use of archaisms peculiar to Lao Tszé. Fourth, there are traces of forgotten idioms. Fifth, there is the use in rhythmical utterances which may perhaps prove to be oracular quotations in a language not that of Lao Tszé himself.

Now coming to the immediate subject announced in the title of his communication, the speaker stated that he had drawn up a comparative table of the translation of the word ch'ang (occurring 31 times) in the renderings of some 20 different translators. It had to be noted that

the word occurred in some places in conjunction with the words 久,

and 壽, which caused modification in its meaning. He had arrived

at the conclusion that instead of using half a dozen or more different words as the translation of the word ch'ang, one single word should be chosen, as one single conception was intended. This conception was

exactly equivalent to the one expressed by the Sanskrit term *nitya* and, though inelegant, the English word *steady* in its various formal modifications (*steadily*, *steadiness*, etc.), or the German word *beharrlich*, might provisionally be chosen to represent it.

He admitted that he would like to find a still more satisfactory English equivalent. What was however of supreme necessity, was to do away with the present fluctuating way of translation, rendering the majority of single Chinese words each by a great number of different European words throughout this brief, though deep and wise, scripture. After a reliable pattern-translation has been evolved, which will necessarily be artificial, stiff and rigid in the first instance, it will be the task of word-artists to convert the rigid frame into a living and flowing organism with the maximum possible conservation of internal terminological relations.

In the work of translation of texts like the *Tao Te King*, four elements have to co-operate to obtain an ideal measure of success:—

1. Sinology, a capacity to deal with the Chinese language as such, and under the special aspects required.
2. Philology, a capacity to deal with a written text in accordance with scholarly methods and canons.
3. Philosophy, a capacity to deal with conceptions and their relations to the words used to express them.
4. Artistry, a capacity to deal with and to transpose artistic form.

As yet no single scholar showing outstanding capacity in *all* four directions has dealt with the *Tao Te King*. Probably—as genius is rare—a combination of talent would be needed for the production of a really first-class translation of the work.

Mr. K. P. Chattopadhyay remarked that from what he had heard it appeared to him that the word *ch'ang* indicates dynamic invariability, not static immutability. The Indian philosophical term *nitya* conveys this exactly. There are inherent difficulties to translation of philosophic terms from the language of one civilization into that of another. Language develops through linking sound symbols (or pictographs) with mental images. Abstract ideas come to be represented by a process of elimination of concrete associations. A word signifying an abstract idea can convey the particular sense in which it is to be taken only in its proper milieu and to those who are familiar with it. To translate it, that is to say, to replace it by another sound (or similar symbol) belonging to a different culture, it is necessary to get hold of a word used in a similar thought environment. Identity of milieu is rare; hence exact translation is very difficult.

There exists another set of symbols which express ideas without such limitations or restrictions to the milieu in which they have developed. The symbols used in the mathematical sciences, and natural sciences in general, are capable of use, by people of different cultures, without the possibility of misunderstanding ideas. A wider use of such symbols is likely to reduce the difficulties in the way of translation of philosophic works.

The Chairman announced that no meeting of the Medical Section had been arranged to be held during the current month.



AUGUST, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT.

SIR LEWIS FERMOR, K.T., O.B.E., D.Sc. (Lond.), A.R.S.M., M.Inst.M.M., F.G.S., F.R.S., F.A.S.B., President, in the Chair.

Members :

Auden, Mr. J. B.
Barwell, Lt.-Col. N.
Bent, Mr. W. A.
Bogdanov, Mr. L.
Brahmachari, Sir U. N.
Brown, Mr. Percy
Chakravarti, Mr. C.
Chatterjee, Mr. P. P.
Chatterjee, Dr. S. C.
Chattopadhyay, Mr. K. P.
Coulson, Dr. A. L.
Driver, Mr. D. C.

Ezra, Sir David
Fox, Dr. C. S.
Gee, Mr. E. R.
George, Mr. J.
Ghose, Mr. T. P.
Heron, Dr. A. M.
Hosain, Dr. M. Hidayat
Hobbs, Mr. H.
Hora, Dr. S. L.
Jameson, Mr. T. B.
Manen, Mr. Johan van
West, Mr. W. D.

Visitors :

Acharji, Mr. M. N.
Bagchi, Mr. D.
Barwell, Mrs.
Bose, Mr. H. K.
Das, Mr. K. N.

Fermor, Lady
Fox, Mrs.
Gee, Mrs.
Hunt, Miss S. D.
Mukerji, Mr. D. D.

Spencer, Dr. E.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of seven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary drew the attention of those present to the valuable presentation to the Society of a copy of the official German record of the International Policies of the great European Powers from 1871-1914 in 54 volumes together with 9 volumes of summaries and a chronological list of contents. The donor was a member of the Society, Baron Ow-Wachendorf, the local Consul-General for Germany, to whom the Society's grateful thanks had been conveyed.

The following candidate was balloted for for election as an Ordinary Member :—

(17) *Shattock, John Swithun Harvey*, B.A. (Oxon.), I.C.S., Assistant Private Secretary to His Excellency the Governor of Bengal, Government House, Calcutta.

Proposer : A. M. Heron.

Seconder : Johan van Manen.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(7) Khan Bahadur Abdul Ghaffar (An Ordinary Member, 1926).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

- (16) B. C. Hobbs (An Ordinary Member, 1935).
- (17) A. T. Weston (An Ordinary Member, 1934).
- (18) Miss Gerta Hertz (An Ordinary Member, 1933).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of applications since the previous meeting.

The Chairman announced the result of the ballot for the election of an Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.

The Chairman announced that there would be an Ordinary Monthly Meeting in the recess month of September, as usual on the first Monday, the 2nd, of the month.

The following papers were presented :—

1. CHINTAHARAN CHAKRAVARTI.—*The Cult of Kālārkarudra (Caḍaka-pūjā)*.

The paper notices the characteristic features of the worship of the Śivaite deity Kālārkarudra who, along with various other little-known deities, is worshipped on the occasion of the Caḍaka-pūjā—one of the most important popular festivals of Bengal. Descriptions of these deities as found in different manuals of worship are given and an enquiry is made into the antiquity of these deities, as also of the festivities connected with them, on the basis of references to them in old Indian literature.

Mr. Chintaharan Chakravarti said :—

The festivities and external observances connected with the cult as observed in the month of Caitra (March-April), have already been described by a number of students. The present paper seeks to describe the worship proper, not described as yet, the chief characteristics of which include :—

1. The prominent part taken by non-Brahmins, including members of the lower castes and untouchable communities, in various rituals connected with the cult. It is these people that serve as Sāṅgas, Bālās or Sāiṅs, as they are differently called, and the most interesting piece of their business is the salutation of the deity in various postures to the accompaniment of various tunes of music. It is these people who offer Śivāvali or the sacrifice to the she-jackal in which the service of a Brahmin priest is not required. They also perform the *pāṣṇāna* or *ghāṣṇāna*—the pompous bathing of a plank made of the *vilva* tree and a number of cane-creepers bound together—probably symbolic representations of Śiva and Pārvatī.

2. The worship of deities little known to students of Hindu iconography, like Kālārkarudra—the principal deity; Nilacandī—his female consort; Hājarā, Kedāra, Gambhīra and Nīla. The worship of these two last-mentioned deities appears to have given the names *Gambhīrā* and *Nīlapūjā* to the festivities in some parts of the country.

3. The sacrifice of the goat to the principal deity who appears to represent an aspect of Śiva. Ordinarily the sacrifice of the goat to Śiva is prohibited.

As to the antiquity of the feast it may be pointed out that festivities similar to those observed on the occasion of the *Cadaka-pūjā* are referred to in works like the *Brhaddharmapurāṇa* and in extracts which are attributed to the *Līṅgapurāṇa* and the *Brahmaraiivarta-Purāṇa*. The principal deity of the cult is described in the *Śaṅkarmadīpikā*—a tantric digest by Kṛṣṇa Vidyāvāgīśa. He is mentioned but not described in the *Kālāgnirudropaniṣad*—a minor Upaniṣad. The *Kālārudratāntṛa*, of which there is a MS. in the Society's Library, refers to the spouse of this deity and she is named Kālārātri whose worship is described in many works. The absence of references to the deity or to the festivities in the works of Raghunandana and Govindānanda (15th-16th centuries) might be regarded as an indication of the fact that the cult was not popular among high-caste people, a survey of whose religious rites and practices is contained in those works.

These rites and festivities may be survivals of similar practices of some sect of the Pāsupatas, some of whose views and practices, which were apparently obnoxious, came in for ridicule and condemnation in such old works as Śaṅkara's commentary on the *Brahmasūtras* and in the writings of the Jains like the *Yaśodharacarita* and the *Bharatakalāvatīrīṃśikā*.

Col. Barwell enquired :—

In view of the time of year suggested (April-May), I am wondering whether something I have myself witnessed in Bengal may not be part of the ritual of this cult. What I have often seen in villages—indeed not far from Calcutta itself—is this : a group of five or six patently low caste people move with a leader and a drummer from one particular kind of tree to another of the same sort. Here, on a signal from the leader, they prostrate themselves head towards the tree stem ; some sort of incantations are pronounced and then some branches (i.e. leaves) are pulled off the tree. This having been done and the branches spread on the ground, they are stamped or danced upon by the worshippers. The party then moves off passing any tree not of the same kind, till another is found when the ceremony of worship and dance is repeated. Can this be a ceremony connected with the cult of Kālārkarudra ?

Mr. Chakravarti replied :—

The ritual referred to by Col. Barwell forms part of the elaborate festivities consisting of dances, music, mimicry and various kinds of physical torture observed on this occasion. It is known as *Khājurbhāṅgā* (tearing off the leaves of the datepalm tree) in Faridpur in Eastern Bengal. A group of Bālās (devotees) march to the tree. The leader of the party prostrates himself before it, walks around it and embraces it a number of times and offers incense to it. Then he climbs it, spreads out the erect leaves, dances on them, tears off the youngest leaf and plucks bunches of fruits, all to the accompaniment of the beating of the drum and the utterance of incantations. The leaf and fruits are then carried to the place of worship and at the end of the worship are distributed among the people who treasure them as they are believed to avert lightning from the houses in which these are stored. A similar practice in some parts of the country is known as 'Phala-bhāṅgā' "or falling upon the branches of prickly plants spread on the ground".

(See: *An alphabetical list of the feasts and holidays of the Hindus and Muhammadans*—Imperial Record Department, Calcutta, 1914, p. 14.)

Mr. Gan Manen said :—

In the June meeting of the Society we had the pleasure of listening to Mr. Chattopadhyay who spoke to us on the *Cadaka* festival in Bengal. The speaker treated the subject from the standpoint of the anthropologist,

describing the ceremonial actions connected with this strange festival. He came to the conclusion that the festival was very old, 'pre-vedic' as he preferred to characterize it. If this conclusion be true the festival and the ceremonial must have a history. In his paper Mr. Chattopadhyay did not deal with this aspect of the subject, but confined himself to a description of present-day practice. Now Mr. Chakravarti has given us a valuable supplement by pointing out that there is a theory connected with the festival, with its own literature, of which he quotes three ritual manuals. Whereas Mr. Chattopadhyay connected himself with the statement that the ceremony is connected with the vernal equinox, Mr. Chakravarti adds that the festival belongs to the cult of a curious triune deity styled Kālārkarudra, i.e., Time, Sun and Storm(?). The two papers complement each other in a most happy manner. It is necessary to have, on the one hand, a correct description of a folkloristic phenomenon as it actually happens, but on the other hand it is equally necessary to attempt to trace the history of such a phenomenon in order to find its rationale. In the non-classical Sanskrit and vernacular literatures many traces are preserved of old cultural traditions which may have greatly changed and perhaps degenerated throughout the course of the ages, and it is to be hoped that in the future many instances will occur of a same happy combination of, first, a careful description on the basis of actual observation of some cultural remnant, and, second, a report on the literary and historical data, placing the observed fact in proper perspective.

Mr. Chakravarti has shown that this Cadak festival consists of two distinct elements of which the one (ceremonial acts) appeals predominantly to the eye, whereas the other (the contents of the spoken word connected with the pūjā) appeals predominantly to the ear. Though the former is more easily appreciated than the latter, the latter is no less important than the former. They represent as it were the inner and outer elements of the entire ceremony. In the first description of the festival the second element was only alluded to, but not described or analyzed. This is one-sidedness, which might easily lead students to wrong conclusions. In the present paper our speaker has supplied the element that was lacking in the previous paper, and the two halves now give a complete picture of the whole, which would not be intelligible if either of the two were lacking. Another point of interest is that Mr. Chakravarti holds that certain general principles, dancing, music, mimicry, and self-torture, are essential to the ceremony, but that the local applications of these vary locally and are therefore accidental.

These two points are important and enter a *caveat*, not only with reference to the premature interpretation of the ceremony discussed this evening, but in analogous cases also.

2. M. S. MANI.—*Notes on some Indian Gall-forming Psyllidæ (Homoptera).*

In this paper the galls of several species of Psyllids are redescribed. *Megatrioza vitiensis* (Kirkaldy) is recorded as causing the pustule-like galls on leaves of *Eugenia jambolana* (D.C.). *Megatrioza hirsuta* (Craw.) is recorded as causing galls on different species of *Terminalia*, which were previously believed to be produced by Cynips. A partial key to some gall-forming species of the genus *Pauropsylla* (Rubs.) is given. Brief biological notes are also included in a few cases.

In the absence of the author the paper was taken as read.

After the reading of the papers, the following exhibits were shown and commented upon :—

1. A. L. COULSON.—*The Perpeti Meteorite.*

At 11 P.M. on the 14th May, 1935, a meteoric shower occurred in the vicinity of the villages of Perpeti ($23^{\circ} 19' 30'' : 91^{\circ} 0' 0''$), Bhateswar, and Pilgiri under the jurisdiction of the Chandina police station, and near other villages under the police stations of Kachua and Hajiganj, in the Tippera district of Bengal.

Eleven pieces in all were recovered. The total weight of all specimens is 21,942.57 grams; the largest stone weighs 6,689.85 grams. The specific gravity of the meteorite is 3.554. It is being analyzed by Mr. P. C. Roy.

The meteorite, which has been registered as No. 298, Stone, in the collections of the Geological Survey of India, has been classified provisionally as No. 14, White Chondrite (Cw) in Brezina's terminology. It has a white, rather friable mass with few, chiefly white, chondri. It will be described fully in a forthcoming paper in the *Records* of the Geological Survey of India.

The stones are exhibited with the permission of the Director, Geological Survey of India.

Dr. A. L. Coulson said that meteorites are objects of great scientific interest, not only on account of their rarity but also because of their chemical composition. About four falls of meteorites are recorded annually but, making due allowance for the uninhabited areas of the globe and the vast oceanic areas, it has been stated that the average number of meteorite falls cannot be much less than one per *diem*.

The first mention of the Perpeti meteoric shower was in the Calcutta issue of the Bengali paper *Ananda Bazar Patrika* of the 25th May, 1935, in which it was stated that the fall occurred on the 31st Baisakh (14th May) at 11 P.M. in villages under the jurisdiction of the police stations of Chandina, Kachua and Hajiganj in the Tippera District of Bengal. This notice was brought to the attention of the Geological Survey of India by Mr. P. C. Roy, Assistant Curator, and a letter was immediately issued to the District Magistrate of Tippera requesting him to be so kind as to investigate the report and, if possible, to obtain and to send to the Geological Survey such meteorite specimens as he was able to collect. He was reminded of the orders of the Government of India contained in a circular letter issued in 1925 through the agency of the Geological Survey of India, that all meteorites falling within the confines of British India are the property of the Government of India and should invariably find a resting place in the Geological Section of the Indian Museum, Calcutta.

Mr. E. W. Holland, I.C.S., District Magistrate of Tippera, was successful in obtaining and sending to the Geological Survey of India the eleven specimens of meteorites which you now see exhibited at this meeting. It would appear, however, from the reports forwarded by Mr. Holland, that possibly other meteorites that fell in the Kachua police area, have been collected and kept awaiting instructions to send them to the Indian Museum. All those exhibited to-night were collected from the Chandina police area. It is to be hoped, therefore, that Mr. Holland will be successful in obtaining other specimens.

The total weight of stones recovered from the Chandina police area is almost 22 kg.; the largest stone weighs a little less than 6,700 grams. This total weight is large compared with that of other falls and ranks third of all falls of meteorites recovered in India and in the possession of

the Geological Survey of India. The largest fall is the Merua meteorite totalling almost 71½ kg. for five pieces; next is the Kuttippuram meteorite of almost 38½ kg. The Karkh fall, described by your President, is just exceeded by the Perpeti fall, being a little over 21,700 grams.

The usual light and sound phenomena accompanied the fall. The reports received mention a sound like 'three bombs' and all agree in stating that there was a bright light in the south-west. The direction of movement of the shower appears to have been from the south-west to north-east. The Perpeti shower revives memories of the very interesting Dokachi meteoric shower of 1903 described by your President. In the Perpeti case, however, it is not possible to state with certainty that the largest stones were carried furthest in the direction of the flight of the shower on account of their greater mass and consequent greater momentum. This was very well shown in the Dokachi fall.

One may refer conveniently here to the usual question, did we have one stone entering the earth's atmosphere which was disrupted almost immediately into the constituent stones of the Perpeti meteoric shower of which the specimens in front of you are examples? Or did the constituent stones of the shower enter the earth's atmosphere as separate individuals? There seems little doubt that if, as is most possible, there was one parent stone, then that stone was disrupted almost immediately it entered the earth's atmosphere in its rarefied outer regions. The stones all have thin crusts of apparently the same thickness. There appears to be a total absence of secondary crusts which are derived when the stones are disrupted at a late stage in their passage through the atmosphere and the heat generated by the resistance of the earth's atmosphere to their passage through it at a reduced speed compared with their original planetary velocity, has been insufficient to fuse the fresh surfaces regularly and to the extent of the crust on the older surface.

Another interesting point with regard to the stones of the Perpeti shower is the total absence of anything suggesting what are termed flow lines, the corrugations on the crust formed by air currents met by the stones in their passage through the atmosphere. The shapes of two at least of the stones are worthy of attention, one being similar to a truncated spheroid and the other rather tetrahedral in form. One can easily imagine these stones travelling through the atmosphere with their rounded and apical ends, respectively, pointed generally in the direction of flight.

The eleven specimens represent ten individuals more or less completely covered with crust, the two smallest stones obviously having been broken apart by human agency after their recovery. The largest stone appears to have lost quite an appreciable quantity of its mass through the same agency.

Meteorites are classified generally into two main divisions, stones and irons. The Perpeti meteorite falls into the stone class and is composed mainly of silicate minerals with subordinate metallic minerals. It is a rather friable, white stone on a fresh fracture, containing few chondri. The structure is very well illustrated in the thin sections of the smallest of the stones which may be examined through the microscope here by means of transmitted light. Chondri are those peculiar rounded grains or spherules which have no exact counterparts in igneous rocks.

The chief metallic minerals present are nickel-iron, probably in its various alloys kamacite, taenite and plessite, steel-grey by reflected light; troilite, the sulphide of iron, bronze by the same light, which is regarded as being practically the equivalent of pyrrhotite; and magnetite, very black and not so abundant as the troilite and nickel-iron. The chief silicate minerals are olivine, the most abundant; enstatite and clinoenstatite, approximately equal in distribution; and a little plagioclase feldspar. A certain amount of what is probably apatite, the phosphate and fluoride or chloride of lime, also occurs.

The meteorite has been classified as a White Chondrite, Cw, according to Brezina's classification. It will be described by me in a paper to be

published in the *Records* of the Geological Survey of India, in which Mr. P. C. Roy's analysis will be included. It will afterwards be exhibited in the meteorite collections of the Geological Survey of India in the Indian Museum which, it may interest you to learn, rank among the best in the world, being inferior in numbers and material probably only to the British Museum in South Kensington and the Field Museum of Chicago.

The President said that it was always pleasant to welcome visitors from outer space and, therefore, we were grateful to Dr. Coulson for his exhibit of the eleven stones that fell during a recent meteoric shower at Perpeti and adjoining villages. The President had himself many years ago taken an interest in a similar shower of stones in Eastern Bengal, described as the Dokachi meteorite, to which Dr. Coulson has referred. The chief interest of the Dokachi fall was the fact that the stones of greater mass had travelled further along their path than those of smaller mass due, of course, to their greater ability to overcome resistance of the air. This indicated that these fragments were all portions of one meteorite that had broken up after its entry into earth's atmosphere.

Dr. Coulson had fully investigated the same point with reference to the Perpeti meteorite, and although the evidence was not so clear, yet there were indications of a similar distribution, making it probable that this shower of meteorites also had resulted from the break up of a single meteorite.

Mr. W. D. West asked if more than one light was seen ?

Dr. Coulson replied that only one light was seen in a south-westerly direction. This would seem to be an additional proof that only one parent meteorite entered the earth's atmosphere and that this was disrupted with emission of heat and light almost immediately into the stones now exhibited. In the cases of other showers, however, more than one light has been recorded.

Mr. H. Hobbs asked what was the size of the largest meteorite known ?

Dr. Coulson replied that the largest single specimen preserved in any museum is the 'Ahnighito' iron meteorite from Cape York, Greenland, which was transported by Admiral R. E. Peary to the American Museum of Natural History in New York. Its weight is 33 metric tons. The largest meteorite known is the Hoba iron meteorite of South-West Africa, weighing 60 metric tons, which is still *in situ*. Borings have failed to prove the existence of any large mass in the very large meteor crater near Cañon Diablo in Arizona.

Sir U. N. Brahmachari enquired if the elements in meteorites are the same as those of the earth ?

Dr. Coulson replied that the elements are the same, but there is a larger proportion of iron and nickel than in the rocks of the earth's crust. The earth's interior, however, is denser than its exterior and its composition is more akin to that of iron meteorites.

2. A. M. HERON.—*An artificial 'natural' Freak from China.*

In a previous meeting of the Society Mr. Van Manen exhibited three large ferruginous concretions, composed of limonite and hæmatite, which had been acquired by him from a Chinese monk. These specimens were said to have come from some unspecified locality in China. Limonite is a common ore of iron, and is formed in meadows and marshes. It seemed likely that these specimens had been formed by the accretion of limonite around some substance which might since have disintegrated or been artificially removed, leaving the hollow shell of limonite.

The interest of the specimens lay in their unusual size, and their hollow core.

The Chinese love such freaks of nature and look upon them as objects of art. In olden times natural freaks had to be reported to the Emperor, and in Chinese literature there are frequent notices concerning such objects.

By mischance one of the three concretions recently fell down and broke into a number of small fragments. Advantage was taken of the circumstance to examine the structure of the material more closely than could be done on the unbroken samples.

Drs. Fox and Coulson and Mr. Gee have examined with me the fragments of this curious object. It appears to be composed of lime, calcium hydrate, with a certain amount of carbonate such as always develops in lime mortar after setting and exposure to the air for some months. It must therefore be artificial, and this is confirmed by the fact that it consists of two or more uneven layers of lime, $\frac{1}{8}$ to $\frac{1}{4}$ inch in thickness which are separated by a thin film of fibrous material suggestive of the remains of Chinese paper.

In the middle of one of the layers is a small fragment of carbon with a shining conchoidal fracture, like cannel coal.

It would seem that a layer of liquid lime mortar had been poured over a crude baton-shaped mould, thin paper had been laid on it, and one or more layers again poured on and allowed to set with a rough knobbly surface, no attempt having been made to smooth or finish it off neatly. This intentional lack of finish is difficult to reconcile with the habitual care of the Chinese artificer.

The outer surface has been heavily but unequally impregnated with limonite, hydrated oxide of iron, to a depth of $\frac{1}{4}$ inch in places, in others a mere film, and this has also spread along the surface of the junction between the outer layer and the one below it. The iron oxide may in part have replaced the lime and part of it has dehydrated to micaceous hæmatite.

Dr. Fox suggests that it may be a filter to purify chalybeate water, the iron removed impregnating and replacing the lime, and also points out that it would soften water in the general manner that Clarke's process does with lime water. There the water is brought to the lime and not the lime water to the hard water as in Clarke's process. It is hoped that some light may be thrown on this puzzling object by exhibiting it to the Society.

Dr. Heron explained the exhibit in terms substantially covered by the paragraph contained in the meeting programme.

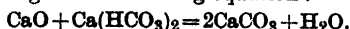
The President recalled that the specimens discussed by Dr. Heron had been exhibited at a previous meeting on the assumption that they were products of nature, and their similarity thereto was so great that they have been accepted as ferruginous concretions by several geologists who had examined the specimens. The accident, therefore in Mr. Van

Manen's household, which had led to one of these specimens being broken, must be regarded as a fortunate one. The purpose of bringing this matter again before the Society was in order to elicit opinion from members concerning the origin of these curious bodies which, it appeared from Dr. Heron's account, must certainly be regarded as of artificial origin. If they had been made deliberately then they were another testimonial to the extraordinary skill of the Chinese in that they had succeeded in producing objects which have been accepted by geologists as natural products.

Dr. E. Spencer remarked :—

With regard to Dr. Fox's suggestion that these hollow concretions may have been used as primitive water softeners, I do not think that this is probable for the following reasons.

The use of lime (CaO) removing temporary hardness from water has to be very carefully regulated. The soluble calcium bicarbonate $\text{Ca}(\text{HCO}_3)_2$, which constitutes the temporary hardness of water, may be reduced to insoluble carbonate CaCO_3 by the addition of one equivalent of lime (CaO) according to the following equation :—



The result is that two equivalents of calcium carbonate are thrown out of solution leaving the water free from temporary hardness.

If, however, an excess of lime CaO is added it goes into solution as alkaline lime hardness which is just as objectionable as the original temporary hardness.

A filter apparatus using a lime container as a filter medium would not be able to control the amount of lime added, and the filtered water would thus be liable to contain at least as much hardness due to excess free lime, as the original temporary bicarbonate hardness.

My view is that if these concretions consist essentially of lime, as stated by Dr. Heron the article has probably been produced accidentally as a bye-product of some manufacturing process, the lime having deposited round a hollow surface.

Before any further pronouncement can be made on the subject it will be necessary to make a detailed chemical analysis of the substance.

[In a subsequent written communication Dr. Spencer added] :—

Since the discussion at the meeting a fragment of the broken 'concretion' handed to me by Dr. Heron has been analysed in Messrs. Bird & Co.'s Research Laboratory with the following interesting results :—

Insolubles	..	..	..	0.30%
Soluble Silica	..	..	..	16.61%
Alumina	..	..	..	5.25%
Ferric Oxide	..	..	..	2.00%
Lime	..	..	..	46.90%
Magnesia	..	..	..	0.95%
Sulphuric Anhydride	..	..	..	1.15%
Carbon Dioxide	..	..	..	7.00%
Water, etc.	..	..	..	18.25%
TOTAL				98.41%

This analysis shows that the concretion has been made from ordinary commercial cement which has been mixed with water and allowed to set in the ordinary way. This fact definitely rules out the possibility of an accidental origin. The article has either been made deliberately as a natural concretion, or it may have represented a primitive form of water container, or may perhaps have constituted the interior lining of a metal or some other container. The small black particles occluded in the cement, to which Dr. Heron drew my attention, have been found on chemical examination to consist of ordinary bituminous coal.

Mr. Van Manen said that he regarded Dr. Spencer's suggestion, that the objects might be accidental bye-products of some manufacturing process, a most valuable one. He recalled that amongst the Tibetans and Chinese freaks of nature were much appreciated and admired on the principle of *omne ignotum pro magnifico*. As amongst these people knowledge of natural history was often very scanty, they could often not distinguish between bizarre natural and artificial forms. The Tibetans styled natural freaks *rang hbyung*, that is: self-originated or naturally produced. He had been offered many pieces of stone, crystals, horns or bones of animals, pieces of decayed wood, and similar objects, which, simply on account of their unusual shape, were thought much of by their possessors. A Tibetan once suggested to him that an ordinary glass paper-weight ball with vivid flower- or flame-shaped colours cast inside would be counted as a most valuable rarity in Tibet, under the impression that it was a natural freak. He thought that Dr. Spencer's suggestion was plausible for this reason that it is not likely that the artificial objects had been purposely manufactured as artificial freaks. If that had been the case, such manufacture would certainly not be an isolated instance, and other specimens would be floating about. In this case, neither his Chinese, nor his Tibetan friends, nor any European collector had met similar objects; so they could not be very common. It might be very well that some observant Chinaman or Tibetan had picked up the things from a rubbish heap near some mine or iron or cement works as marvels of nature.

3. JOHAN VAN MANEN.—*A Babylonian clay Tablet with cuneiform Inscriptions.*

Mr. Van Manen said that his communication was not intended to give information but to seek it. India had, like other countries, its special advantages in the matter of material for scholarly study. In all Indological matters its collections and resources were rich. In some other directions its material and resources were poor; for instance with reference to Egyptological or Babylonian studies, experts and reference works.

Recently his assistance had been sought to determine the contents of an inscription on a small clay tablet presumably brought from Mesopotamia. The owner possesses half a dozen similar ones but can give no precise information concerning their provenance. They are probably war relics. The little brick was now placed before the meeting in the hope that some one amongst those present might either be able to give information concerning it, or help in putting the Society in touch with some local scholar able to do so. If no solution could be arrived at in the meeting, perhaps publication of the request in the Advance Proceedings might lead to it.

The tablet was handed round.

4. W. D. WEST.—*Cinematograph film of Quetta after the earthquake.*

A short film showing the destruction wrought by the earthquake in various parts of Quetta and at Mastung. Of particular interest are new earthquake-proof bungalows built by the N.W. Ry. since the last earthquake, and quite undamaged by the present earthquake.

It was decided to hold over this exhibit till the next Ordinary Monthly Meeting to be held on MONDAY, THE 2ND SEPTEMBER.



SEPTEMBER, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT.

SIR LEWIS FERMOR, KT., O.B.E., D.Sc. (Lond.), A.R.S.M., M.Inst.M.M., F.G.S., F.R.S., F.A.S.B., President, in the Chair.

Members :

Auden, Mr. J. B.	Ghosh, Mr. P. N.
Biswas, Mr. K.	Groth, Mr. E. M.
Bogdanov, Mr. L.	Heron, Dr. A. M.
Brahmachari, Dr. P. N.	Hora, Dr. S. L.
Brown, Mr. Percy	Hosain, Dr. M. H.
Chakravarti, Prof. C.	Lal, Dr. R. B.
Chatterji, Mr. P. P.	Manen, Mr. Johan van
Coulson, Dr. A. L.	Mitter, Hon'ble Sir B. L.
Ezra, Sir David	Olpadvala, Mr. E. S.
Fox, Dr. C. S.	Prashad, Dr. B.
Gee, Mr. E. R.	Soudhi, Mr. V. P.
Ghose, Mr. T. P.	Spencer, Dr. E.
	West, Mr. W. D.

Visitors :

Bagchi, Mr. D.	Fermor, Lady
Bhattacharji, Mr. D.	Fox, Mrs.
Ezra, Lady	Hunt, Mr. H. C.
	Mitter, Lady

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members :—

(18) *Chakrabarti, Sukumar*, B.Sc. and B.A. (Calcutta), D.Litt. (Paris), Barrister-at-Law, Member of the Société Asiatique de Paris, P. 139, Russa Road, Calcutta.

Proposer : Johan van Manen.

Seconder : Sir Lewis Fermor.

(19) *Faruqi, A. J.*, M.Sc. (Alld.), Ph.D. (London), D.I.C., Lecturer, Zoology Department, Muslim University, Aligarh, U.P.

Proposer : S. L. Hora.

Seconder : M. Hidayat Hosain.

(20) *Howland, Felix*, Professor of English, Habibia College, Kabul, Afghanistan.

Proposer : Jamal-ud-Din Ahmad.

Seconder : W. D. West.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Papers were presented, and Exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.

The Chairman announced that unless special notice was given there would not be any Monthly Meeting during the recess month of October, 1935.

The following paper was presented :—

1. JATINDRA MOHAN DATTA.—*A new type of Bagh-Bandi or Tiger-play prevalent at Basirhat in Lower Bengal.*

A short note describing a variant of a previously published type of sedentary game, *Bagh-Bandi*, a hybrid between *Mughal-Pathān* and *Bagh-Bandi*. Locality, Basirhat, District of 24-Parganas. Dying out.

In the absence of the author the paper was taken as read.

The following exhibits were shown and commented upon :—

1. SIR L. L. FERMOR.—*Tubular Panjal Trap from Kashmir.*

In Kashmir there occurs a thick succession of basic volcanic rocks known as the Panjal traps which have been studied by a succession of geologists, namely Lydekker, McMahon, Middlemiss, Bion, and Wadia. These rocks are generally regarded as surface lava flows probably of terrestrial origin, but possibly submarine. They are of basic—basaltic—composition, though one observer (Wadia) has, by using the term 'augite-andesite', suggested a tendency to an intermediate composition.

These lavas are several thousand feet thick and in age range from Upper Carboniferous to Middle Trias.

Although holding the view that these rocks are true surface lavas of the age indicated by their position, Middlemiss, in his usual philosophical manner, has discussed the possibility that they might be intrusive and even of Deccan trap age, this possibility being suggested by the wide range in age of the rocks with which these traps are associated.

No geologist has yet given any careful description of the macroscopic features of these lavas putting beyond question their almost certain surface origin.

Last autumn I visited Kashmir, and under Mr. Wadia's guidance was shown some of the most important features of Kashmir geology. One of our excursions was to Shukar-ud-din hill near Botiung village on west side of Wular lake. Here Mr. Wadia showed me a fine section of the Panjal traps exposed in a canal cutting. The sheets of lava are dipping to the E.N.E. at about 45° , and consequently in a small distance several successive sheets are crossed making it easy to study the nature of the junctions between these sheets. In thickness the flows in this section vary from, say, 6 feet to between 50 and 100 feet. The upper portion of each flow is vesicular and amygdular and a small thickness at the base is usually amygdular, whilst the interiors of the flows are on the whole non-vesicular, though there are often scattered vesicles and sometimes lines thereof.

The most interesting discovery, however, was that in no less than three of the flows there are tubular vesicles at the base such as I have found at the base of some of the Deccan trap flows of Bhusawal in Berar. These are shown in the photograph to be circulated. This photograph shows the vesicular surface of one flow overlain abruptly by another flow, which is compact, except at the base where tubular vesicles can be seen arranged at right angles to the contact of the two flows. The contact is dipping steeply from left to right and is marked by a geological hammer. Under the microscope the tubular rock is found to be a typical basalt rich in what were once olivine crystals now completely altered to iddingsite and serpentine. Although these Panjal traps must originally have been very similar to the Deccan traps in their mineral composition, yet on account of their greater age and disturbance they have been altered with formation of epidote and chloritic and other secondary minerals. There has also been a certain amount of relative movement between successive flows as shown by the fact that the surface of the underlying flow is epidotic and slickensided. Specimens of both the pipe-rock with its tubular vesicles and of the slickensided surface of a flow are shown therewith.

As previously described, the Panjal traps do not contain olivine. These Botiung rocks are interesting also because some of them carry olivine. It may be remembered that in the Bhusawal flows I found evidence that in many flows olivine crystals had sunk towards the base, and as this tubular specimen containing olivine is also a basal specimen, its richness in this mineral may be due to the same cause. I may mention, however, that a specimen from the interior of one of these flows, which has a coarser grain and is, therefore, a dolerite, also contains olivine, though in smaller quantity.

My previous experience of the details of the Deccan trap basalt and dolerite flows pierced by the Bhusawal boring made me realize at once that here was definite evidence of the effusive

surface origin of at least the Panjal traps of this locality; and Mr. Wadia impressed upon me at the time that this discovery was also of importance because, although it was generally accepted that the Panjal traps were surface lavas, yet the possibility of their intrusive origin had been at times discussed.

Dr. C. S. Fox said: It is a great step forward in the geology of the Panjal trap to have such definite evidence that in the section described the trap occurs as undoubted lava flows. The fact that no less than three lava sheets occur successively is, with the evidence of the tubular basal vesicular structure and upper amygdaloidal development, convincing data. If a single lava sheet were present some doubt might perhaps exist as to whether it was a sill or a flow. Many sills show cavities under their upper surfaces. Sir Lewis Fermor has written of these Panjal traps as surface flows. From evidence in the Deccan, Abyssinia, and America there seems to be no doubt that in these cases *surface* also means *sub-aerial*. In each of these cases any sediments associated with the lavas are of fresh-water origin—possibly deposited in small lakes over which the lava spread. In Kashmir the lavas are closely associated with marine strata, and it becomes an important point whether the Pir Panjal lavas were poured out on the land or in the sea. Mr. Wadia had concluded that the Agglomeratic slate was largely composed of volcanic debris, but I do not think he has explained whether this material settled in the sea at the time of its ejection. These Agglomeratic slates are closely related to the Panjal traps, and so it is an important point if it can be definitely stated whether these eruptions were submarine or not. So far as I know we have no detailed descriptions of the character—texture and structure—of submarine lava flows at all comparable with those of the Pir Panjal.

Sir Lewis Fermor replied that Dr. Fox had answered the first question for him, namely that the traps at this exposure were lava flows. He added that a pillow structure was regarded as an indication that lavas had been erupted under submarine conditions. He had not observed any signs of such structures in the section described, nor were there any intercalations of marine or other sediments. The evidence is therefore in favour of a terrestrial origin, as with the Deccan lavas.

Mr. W. D. West asked Sir Lewis Fermor if he had seen the exposures described by C. S. Middlemiss and H. S. Bion, which suggested that the Panjal trap may have been in part intrusive.

If the Panjal trap is composed of lava flows, then the period over which they were erupted must have been of great length, from the Upper Carboniferous to the Middle Trias, one of the longest periods of igneous activity known. This was one of the reasons that prompted Mr. Middlemiss to suggest an intrusive origin.

Mr. West also drew attention to the fact that the area over which the Panjal trap was erupted was probably much greater than generally realized. The Mandi trap, first described by Col. McMahon, was very similar to the Panjal trap, and similar rocks are also found even further south-east.

Dr. A. L. Coulson said: I believe that Sir Henry Hayden has described rocks in Tibet very similar to the Panjal trap, which would also show how widespread these volcanic rocks were.

Sir Lewis Fermor replied that he had limited himself to a description of the Panjal trap at the place mentioned by him and that as he had not personally examined the outcrops described by Mr. Middlemiss and Sir Henry Hayden he did not feel competent to pass an opinion on the questions raised by both previous speakers.

Mr. J. B. Auden also spoke.

Mr. D. S. Bhattacharji said: In the Central Provinces (around Bhandara) it is found that pseudo-vesicular lava like rocks (altered) are formed by complex 'elastic' or 'plastic' deformation of one very basic and another acid or intermediate rock, e.g., a suitable combination of greenstone quartz rock, epidosite and granite. The 'vesicles' are filled by quartz, epidote and calcite and quartz, dark crushed rock (very basic and comparable with the green-stone of the Panjal trap), etc. These vesicles sometimes form lenticular masses like tubes of the Panjal trap. These are very old rocks and are older than the Deccan trap.

The Panjal traps are very old rocks and do not show any definite sign of their igneous origin. These are also highly disturbed.

It is therefore possible that the vesicular structure is not original but is only a secondary structure developed by earth movement for a long time. If this is true, the question of extrusion or intrusion does not arise at all.

Sir Lewis Fermor in reply wrote that he had no doubt that the rocks of Botiung were igneous rocks judging from both their macroscopic and their microscopic characters. He was not acquainted with Mr. Bhattacharjee's pseudo-vesicular rocks and therefore was not aware how closely they simulated vesicular lavas.

2. A. L. COULSON.—*Additional Stones from the Perpeti Meteoric Shower.*

Since the August meeting of the Society, when eleven stones which fell in villages under the jurisdiction of Chandina police station during the Perpeti meteoric shower of the 14th May, 1935, were exhibited, three additional stones, of a total weight of 1,531.604 grams, have been recovered by the District Magistrate from villages under the jurisdiction of Kachua police station in Tippera district. The total weight of all specimens recovered from this shower now amounts to 23,474.18 grams.

One of the three additional stones (298 L) is extremely interesting in being the sole specimen of the shower which shows a secondary crust. This has been developed on two of its faces by their imperfect fusion after their formation as a result of a secondary disruption of the stone in its passage through the earth's atmosphere. The contrast between the generally smooth, thin crust characteristic of all the stones of the Perpeti shower and the coarse, dark, rough, secondary crust on these faces of 298 L is very marked.

The smallest of the three additional stones is an almost perfect crust-covered specimen.

It would appear that the stones of the Perpeti meteoric shower fell within a rectangular area some five miles long by three miles wide, the supposed direction of flight of the parent meteor being in the direction (south-west to north-east) of the shorter side.

Dr. A. I. Coulson said that this evening there seemed to be rather a surfeit of geological exhibitors, with exhibits ranging from tubular vesicles, meteorites, coffins and skulls to earthquakes. He therefore did not propose to take up too much of the time of the meeting.

Dr. Coulson recalled to the members present that at the August meeting of the Society, he had exhibited eleven stones of the meteoric shower that fell at Perpeti in the Tippera district on May 14th, 1935.

Apart from certain characteristics of form, none of those stones had any special interest. It was therefore all the more gratifying to note that of the three extra stones of that shower which had been received since the last meeting, two had features of more than common interest.

The largest stone shows very plainly a secondary crust which has been developed on two of its faces. This secondary crust, as you see, is black, rough to touch, and shows up well in contrast with the smooth, generally thin dark crust on the other parts of the stone. It indicates that this stone, which was born of the parent meteorite when that disrupted into the numerous stones of the Perpeti shower, has itself suffered disruption not very long before it reached the earth's surface. Consequently the time of flight was insufficient for there to be complete fusion of the new surfaces of the stone and only the rough, secondary crust has been formed.

The smallest stone is also very interesting. If one examines closely this surface of the stone, one can see an imperfectly developed system of radiating flow lines. These are due to the effects of surface air currents upon the fused surface of the stone during its flight towards the earth in the atmosphere.

These three additional stones from the Kachua police subdivision, together with the eleven stones previously exhibited from the Chandina police subdivision, both in the Tippera district, form a very valuable addition to the collections of the Geological Survey of India. All of them fell within a rectangular area some five miles by three miles, the shorter side of which is in the direction, north-east to south-west, of the flight of the parent meteorite. This is unusual as one expects the longer side to be in the direction of flight of the parent stone, as in the case of the Dokachi meteoric shower referred to at the last meeting. However the cause may be due to the fact that apart from the two largest stones, weighing about 7 and 5 kg. respectively, all the other stones are less than 2.7 kg. and no fewer than seven of these are more than half a kilogram.

Dr. Coulson added that before concluding his remarks, he would like to draw attention to the report that appeared in to-day's (2nd September) *Statesman*, in which it was stated that the stones of a recent meteoric fall near Comilla, totalling some 52 lbs., had been collected by the District Magistrate of Tippera district and were being sent to the Geological Survey of India. Dr. Coulson stated that if this report were true, then the stones in question were apparently those of the fall on 1st August, 1935, near the village Nangalkot, some 20 miles south of Comilla in the Tippera district of Bengal. The first report concerning this fall appeared in the *Ananda Bazar Patrika*, and a copy, after translation by Mr. P. C. Roy, Assistant Curator, Geological Survey of India, who first drew the attention of the Geological Survey of India to it, was sent to the District Magistrate of Tippera. Recently a communication had been received from the District Magistrate to the effect that enquiries were being made and that a further report would be sent by him later. It was to be hoped from the *Statesman* report that the District Magistrate had been successful in obtaining the stones of this Nangalkot fall and that at the next meeting of the Asiatic Society, the members would be able to see them. There was no connection between the Perpeti meteoric shower and this reported fall at Nangalkot; it was sheerest coincidence that two falls so close together, May and August, should happen to be in the same district of Bengal.

Sir B. L. Mitter asked if there were any statutory orders regarding the possession of meteorites.

Dr. Coulson replied that he was unaware of any orders other than those of the Government of India contained in their circular letter referred to at the last meeting, whereby all meteorites falling within the limits of British India were the property of the Government of India and should normally find a resting place in the collections of the Geological Survey of India in the Indian Museum, Calcutta.

Mr. Percy Brown asked if there was any evidence to the effect that falls of meteorites were becoming more frequent in recent years.

Dr. Coulson replied that he did not think that meteorite falls were becoming more frequent in recent years but, as Mr. Percy Brown suggested, falls are nowadays, through the medium of the Press, being brought more frequently to the notice of the public. Also the Government of India orders referred to are becoming more generally known through constant enquiries being made by the Geological Survey of India on the occasion of any new reported fall.

Mr. Van Manen described the very interesting occurrence of shooting stars being seen by him when he was ill in bed and happened to have his head in the same position on his pillow thus being able to see through the same section of his window on two successive nights recently. According to his impression—he had not noted the hour—at approximately the same time of the night, at the same place, and in exactly the same direction, a meteor or shooting star appeared, and became extinguished halfway in the field of vision, at the same approximate distance from the window frame. The luminous track was rather dull than brilliant white. He asked whether these would more likely have been meteors or shooting stars.

Dr. Coulson replied that most meteorites have been recorded as falling within the months of May and June. These are the summer months in the northern hemisphere where most observers are domiciled, but against that must be remembered the fact that very few meteorites are known to fall in July, which is also a summer month. According to Pickering, falling stars and fireballs are much more evenly distributed through the year than are meteorites and their period of greatest number is from July to November. In May and June, in contrast with meteorites, their number is at a minimum. So there is every reason to question the gradation that has been supposed to exist between meteors and meteorites.

3. V. P. SONDHI.—*A Coffin and a Skull from a limestone Cave in the Southern Shan States, Burma.*

In the course of a geological traverse in a remote part of the Southern Shan States, Burma, in 1932, while making the usual enquiries on the mineral occurrences in the place, the exhibitor was informed of the existence of a cave there, containing coffins with human skeletons. It was only recently discovered by a honey-collector who had climbed to the mouth of the cave to collect honey from a beehive there, by means of bamboos vertically fixed in the crevices.

The story appeared incredible at the time as not only is no present tribe known to dispose of their dead in this manner, but the transport of heavy coffins to the cave, which is situated in the middle of a sheer cliff some 500 ft. in height, seemed impossible. But the old honey-collector insisted that he had seen the coffins and in support produced a skull that he had grabbed from the nearest coffin. The exhibitor thereupon decided to visit the cave himself and did so twice, in 1933 and 1935, and he has brought back a coffin and a skull. Extensive enquiries in the Shan States failed to elicit any information as to what tribe this burial place could belong to, and the object of the present exhibit is to try the medium of the Asiatic Society of Bengal for this purpose.

Mr. Sondhi said :—

In the course of my geological work in the Southern Shan States, Burma, in 1932, I visited an old silver mine near Melun (Melawn) in the Mawikmai State, and while I was making enquiries on the history of the mine and on other mineral occurrences in the area, I was informed of a recent discovery of a cave in the neighbourhood, filled with wooden coffins containing human skeletons. The cave lies in a very inaccessible place, in the centre of a sheer cliff, some 500 feet high, and was discovered quite accidentally by an old inhabitant of Melun, who managed to climb up to it to collect honey from some beehives he had noticed from a distance. While doing so he happened to peep into the cave and was astonished to find it full of coffins with skeletons. He brought down a few bones and an earthen pot that he found near the entrance. The bones were much valued as charms and amulets to ward off evil spirits and were distributed to the villagers, the old honey-collector retaining a complete cranium and the earthen pot for himself. After some persuasion and monetary compensation I took possession of these and brought them down to Rangoon. The pot was made crudely out of poor clay and was only lightly baked, and its shape and size were quite new to the villagers. It reached Rangoon safely but in a few days it fell to small pieces due to excessive humidity. The skull was shown to Col. Lack, I.M.S., then Principal, Medical School, Rangoon, who thought it belonged to a modern man.

While discussing with the villagers as to what tribe these coffins and skeletons could possibly belong to, I was told of a strong and widespread belief that there existed in the jungles in the neighbourhood, a primitive type of human beings who roam about like other denizens of the forest. They were described as hairy men about the size of an average Shan but none of the villagers present had actually seen one, although one or two asserted that they had seen their foot-prints and had heard their voices from a distance. I was also informed that human bones were sometimes found in places where their presence is not accounted for, and rarely an earthen pot or a wooden implement is picked up, of a type unknown to the villagers; but none of these things could be produced for my inspection because such things, I was told, were not preserved, they being of no good to anybody. These primitive men keep well out of sight of the civilized men and away from their habitations. But sometimes when the paddy is ripe they are reported to have approached the villages and fields at night and decamped with paddy. They are also reported to chop at trees with an upward stroke which is contrary to the common practice. The villagers are usually shy of talking on such matters for fear of being ridiculed but when encouraged and listened to patiently they become communicative. It is curious that whereas an average native of these parts attributes any and all inexplicable occurrences to 'Nat', the Lord of Evil, whom they fear and revere, the supposed primitive human beings are spoken of in a patronizing and light-hearted manner, and their actions are regarded as the misdeeds of a spoilt child.

There seemed to be no way of proving the existence of these primitive people but I decided personally to confirm the truth of the story about the cave and the coffins. On return to Calcutta I discussed the story with Dr. S. L. Hora and he also impressed on me the necessity of a visit to the cave and of recovering a coffin if possible.

An opportunity offered itself in 1933 when, with the help of some villagers, a light bamboo scaffolding was put up. The only practicable way of reaching the cave is first to climb the slope just to the east of the cliff, up to the level of the cave, and then to negotiate the remaining distance of about 30 yards by walking over bamboos fixed in between crevices and ledges. During this trip I was led by the original discoverer. In order to keep both hands free for clutching at any holds that might offer on the rock-face we had to leave behind things like ropes, spades, lanterns, etc. A small camera and some flash-powder

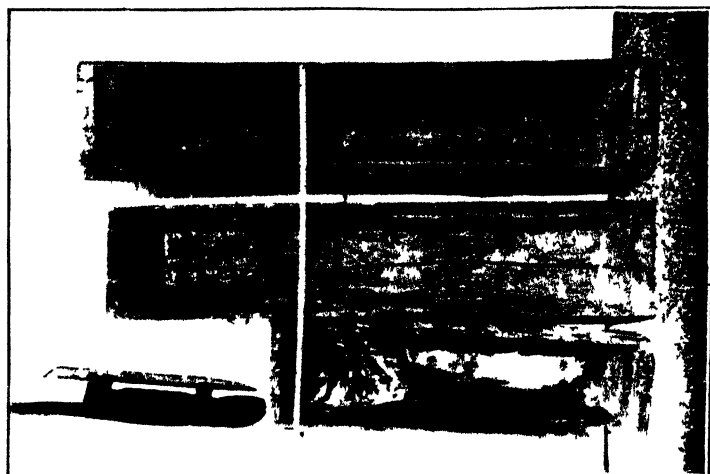


FIG. 1. A view of the limestone cliff with the arrows pointing to the cave. The dotted line represents the route taken. Below the cave, and slightly to the right is seen the bamboo scaffolding as used in the first visit.

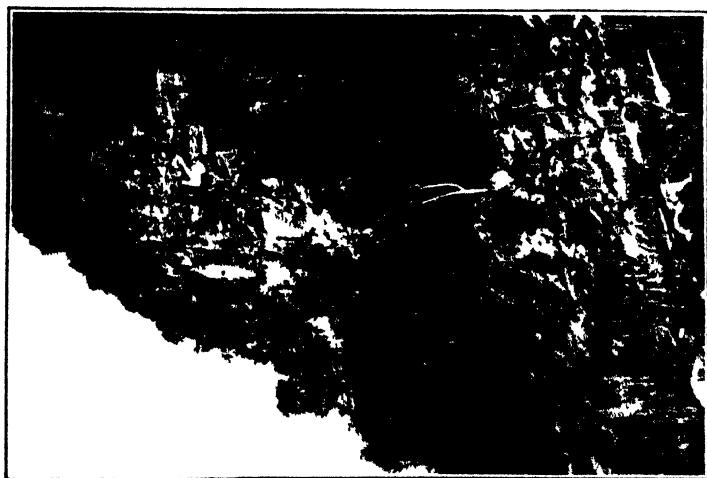


FIG. 1.

FIG. 2. The three coffins brought out of the cave. The one on the right was exhibited in the meeting. The one on the left has an animal figure (inserted above) carved on the reverse side.

FIG. 2.

were carried in pockets. Boots had to be discarded as they slipped badly on the bamboos, and although the latter were extremely hot in the midday sun, they had to be negotiated barefeet. It was very much like tight-rope walking, only the rope in this case was a hot bamboo! We had constantly to face the rock-wall, lean against it and move sideways. With difficulty we reached the mouth of the cave and crawled in through the crooked entrance.

The cave is in reality a natural fissure in the limestone, with a slanting roof and an uneven floor. The coffins and human bones were there as described by the honey-collector, and it was so full of these that movement inside the cave was difficult. We had hardly crawled some 10 feet when the old guide picked up a freshly shed skin of a large snake! As we were not prepared to meet such an emergency I thought it best to make a hurried retreat before we annoyed the possessor of the skin. Moreover, a glance was enough to show that there was nothing else we could do beyond confirming the discovery. It was impossible to take any photograph in our cramped position; we could not get far enough from the coffins for the purpose and we could not use the flash for fear of choking ourselves with fumes and also for fear of accidentally igniting the coffins, which were tinder-dry. It was also impossible for us to bring down a coffin or even to throw one out, as in that case not only would the coffin be reduced to splinters on landing below the cliff but it would at the same time sweep away our scaffolding from below the mouth of the cave which was our only possible way of retreat. It was clear that for further exploration a better-equipped party was needed.

The discovery was brought to the notice of the Commissioner, Federated Shan States, Mr. J. Clague, I.C.S., who at once took a great interest in it, and it was made known to other officers with a view to collecting whatever information they could.

In March, 1935, we got up a party consisting of Mr. N. W. Kelly, Capt. R. L. Frost, Mrs. Frost, Mr. P. A. Plunkett, three officers of a timber company, and myself. We owe the success of this expedition entirely to the excellent and thorough arrangements made by Mr. Kelly, to whom we are all indebted. A number of villagers was collected and a strong bamboo scaffolding was rigged up under his supervision. As there was no room for all of us in the cave we went in in relays. A look inside the cave was enough to show that the cave had been raided since my last visit. There were very few bones left now and practically no skull was obtained. The coffins too were not arranged now in the manner I had seen them last. As we had lights this time we could see further in. There were some 30 to 40 coffins in the portion of the cave visible to us. They varied in size and in some cases, slightly in design. They are all carved out of solid logs of teak and the outer surfaces are levelled by short chopping strokes rather than by a saw, much in the manner that the present day Burmese and Shan dug-out are made. The average dimensions are somewhat less than those required to accommodate an average man, and it is presumed that the corpses must have been in a shrunken state to fit these coffins. One of the three coffins brought down has the figure of a four-legged animal (lizard?) carved out of the same log as the coffin, and there are traces of another similar figure facing it. Presumably this formed a lid to a coffin. From the growth rings exposed on the ends of the coffin we find that it was carved out of a quarter of a log of teak and some of the logs must have been from 3 to 4 feet in diameter. Coffins near the floor of the cave were usually rotten but those higher up were mostly in a good state of preservation. It may either indicate a greater age for the coffins nearer the bottom, or it may be due to greater amount of moisture on the floor, which, it is possible, may be partly under water in the rainy season.

A curious feature of the bones collected is that almost all the long bones—those of the legs, are roughly cut or scraped at more or less the same position at the two terminals. The parallel narrow grooves and

lines are like those produced by the gnawing of rodents, but it has been suggested that these cuts might be a *post mortem* mutilation by human agency representing some kind of a burial ritual of a particular tribe. Among the bones collected there are a few slender ones, one of which exhibited here has kindly been identified by Dr. B. Prashad as a femur of a young monkey.

Extensive enquiries in the Shan States have so far failed to elicit any information as to what tribe this burial place could belong to. All the existing tribes bury their dead underground except for Buddhist monks and the members of ruling families who are cremated. Other equally puzzling problems, though of local interest, are : how were the coffins transported to the cave, and how did the bones come to be mutilated ? The coffins could not have been lowered from the summit of the cliff to the cave. It is possible that the cave or the fissure, extends further than we could see, to the other side of the hill, and was entered into from that direction. No trace of such an entrance, however, exists. Possibly it existed formerly, and was filled up after the cave was fully loaded with the coffins, and the tropical growth obliterated the site in a few years. The only other conceivable way would be by a rock ledge that may have once extended over the gaps that we had to span with bamboo scaffolding. This could have been broken down after the cave was full, or possibly the ledge fell off itself through natural agencies, such as an earthquake or a land-slide. A narrow ledge does, in fact, extend over part of the way and lends support to this supposition.

The object of the present exhibit is to circulate among the members of the Society the circumstances of the discovery of coffins containing human skeletons in an inaccessible cave in a remote part of Burma, in the hope that some light will be thrown by them on this mysterious occurrence and on the various problems connected with it.

Dr. *Bairi Prashad* described the human bones submitted to him for examination. He added that the grooves, or marks, occurring at the end of the bones seemed to him produced by rodents and not by human agency. He added that the femur of a monkey was found free from such markings.

Dr. *Hora* remarked that in 1933 he enquired from Mr. Sondhi if he had heard any stories of ' wild men ' during his extensive travels in Burma. The information was required for Mr. Johan van Manen who was then making a detailed study of the subject. Mr. Sondhi gave him an account of a supposed hairy primitive tribe near the village of Melun in Burma and mentioned the existence of a large number of their peculiar coffins in a cave. At the speaker's suggestion Mr. Sondhi wrote a note about this tribe which was shown to Dr. B. S. Guha, Anthropologist with the Zoological Survey of India. The speaker had also requested Mr. Sondhi to take further interest in the subject and it was a matter of great pleasure to him that so many fresh details had been gathered. On Dr. Guha's return the information now available would be supplied to him and the speaker did not doubt that Dr. Guha would be able to throw some light on these peculiar customs. In the meantime if Mr. Sondhi could get further opportunities to collect more material, he should do his best to avail himself of these and send the material to the Zoological Survey of India for investigation.

Dr. *Guha's* comments on Mr. Sondhi's note were as follows :—

Mr. Sondhi's note on the existence of a hairy primitive tribe near the village of Melun (Burma) is very interesting and calls for a thorough exploration of the region. Of the existence of a non-mongoloid primitive stratum in the population of the unexplored regions of Burma we have many evidences and remnants of the same racial stock in comparatively unmixed state may very possibly be found in isolated tracts not explored so far. Exposure of dead bodies in canoes is part of a widely spread

custom of the disposal of the dead which links further India with Oceania.

I would suggest : (i) photographs and all details regarding this form of the disposal of the dead be taken and if possible locate the tribe which still practices this, (ii) collection of all skulls and if possible other objects, such as earthen pots etcetera, which are left there. If an entire canoe can be procured so much the better. In any case I would strongly urge that all the skulls that can be got hold of should be kept and sent to us in the Indian Museum. The more skulls that can be procured the better for our purpose. If possible attempts should be made to get the mandibles with the skulls. Skulls should be given preference to, no doubt, but other bones, specially the pelvic and the long bones are very useful for study. If ascertainable the bones of each single skeleton should be marked separately so that there is no chance of their getting mixed up.

If living men of the tribe be observable, then photos should be taken of them as well as of their habitations, and all details regarding their mode of life and customs should be gathered.

Mr. *Van Manen* drew attention to a most remarkable coincidence in connection with this matter. Exactly 40 years ago a similar discovery was made under similar circumstances, though in a place far distant from the Shan State and apparently unrelated to them and their inhabitants. The description of that earlier discovery was published in the *Journal of the Anthropological Institute of Great Britain and Ireland*, Vol. 26, (1897), page 33ff. The full title of that communication ran :—

‘ On Unusual Forms of Burial by People of the East Coast of Borneo. By C. V. Croagh, Esq.’

For purposes of comparison it is sufficient to quote the ‘ Extract from Diary for March, 1895 ’ with which the note opens :—

‘ March 13th. —Visited some caves in a limestone hill on the left bank of the river near the Batu Puteh estate. These caves were used as burial places by a former race of inhabitants of whom none of the present settlers or traders on the Kinabatangan could give me any information. The entrance to the upper cave (being in the face of an almost perpendicular rock at about seventy or eighty feet from the ground) is somewhat difficult to reach. It contains about 40 bilian (— ironwood) coffins, artistically carved with figures of buffaloes, crocodiles, lizards, and snakes, containing skeletons of men, women, and children ; and also sumpitans, spears, and articles of Chinese and other pottery, with brass ornaments of native and foreign workmanship. The relics appear to me to be of Javanese origin, but there is no tradition on the river of settlers of this nationality. The carvings and scroll work on some of the coffins are superior to those now executed by native workmen.’

The further details are given in a brief note, only two and a half printed pages in length, with illustrations added on another page.

The speaker hoped that in further investigations regarding Mr. Sondhi's discovery, the previous one from Borneo should be kept in mind.

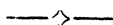
4. W. D. WEST.—*Cinematograph Film of Quetta after the Earthquake.*

A short film showing the destruction wrought by the earthquake in various parts of Quetta and at Mastung. Of particular interest are new earthquake-proof bungalows built by the N.-W. Ry. since the last earthquake, and quite undamaged by the present earthquake.

Mr. *West* said that the film was taken with the object of placing on permanent record the effects of the earthquake in Quetta and the surrounding country, and of showing the relation between the damage sustained by buildings and the nature of their construction. The great

loss of life, the largest that has occurred in any Indian earthquake, was directly attributable to the inferior construction of the buildings.

Some of the features of the earthquake shown in the film included the complete destruction of Quetta city; the gradual decrease in the intensity of the damage towards the Cantonment and the Staff College, which was scarcely affected; the manner in which certain buildings recently constructed by the North-Western Railway on earthquake-proof lines escaped undamaged; the rotation of monuments in the cemetery; the heavy falls of rock on Chiltan mountain; the fissuring of the alluvium between Chiltan and Mastung, and the associated buckling of the railway line; and the general destruction in Mastung.



NOVEMBER, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 4th. at 5-30 P.M.

PRESENT.

SIR LEWIS FERMOR, K.T., O.B.E., D.Sc., A.R.S.M., F.G.S., M.INST.M.M., F.R.S., F.A.S.B. President, in the Chair.

Members

Basu, Mr. N. M.
Bose, Mr. M. M.
Brahmachari, Sir U. N.
Brown, Mr. Percy
Chatterjee, Mr. P. P.
Chatterji, Dr. S. K.
Coulson, Dr. A. L.
Dey, Mr. Mukul
Driver, Mr. D. C.
Ezra, Sir David
Fawcett, Mr. L. R.
Ghose, Mr. T. P.

Ghuznavi, Mr. I. S. K.
Groth, Mr. E. M.
Heron, Dr. A. M.
Hobbs, Mr. Harry
Hora, Dr. S. L.
Hosain, Dr. M. H.
Jam, Mr. C. L.
Majumdar, Mr. N. G.
Mansen, Mr. Johan van
Mitter, Sir B. L.
Mukherjee, Dr. J. N.
Ow-Wachendorf, Baron W.

West, Mr. W. D.

Visitors

Blake, Mrs. G. F.
Brown, Mrs. Percy
Ezra, Lady

Fermor, Lady
Hafiz, Dr. H. A.
Ow-Wachendorf, Baroness

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary reported that the following candidates had been elected Ordinary Members during the recess month, October, under Rule 7 :—

(21) *Mitter, Sudhir Chunder*, Barrister-at-Law, 19, Camac Street, Calcutta.

Proposer : Sir B. L. Mitter.

Seconder : Sir L. L. Fermor.

(22) *Chaudhuri, Sachindra Nath*, Barrister-at-Law, 52, Ballygunge Circular Road, Calcutta.

Proposer : Sir B. L. Mitter.

Seconder : Sir L. L. Fermor.

(23) *Banerjee, Sailendra Nath*, Barrister-at-Law, 307, Circus Avenue, Calcutta.

Proposer : Sir B. L. Mitter.

Seconder : Sir L. L. Fermor.

(24) *Dutt, Mohendra Nath*, L.E., I.Eng.S. (Retired), Consulting Engineer, Late Executive Engineer. P.W.D., 6, Old Post Office Street, Calcutta; 12, Kailas Bose Lane, Howrah.

Proposer : Sir B. L. Mitter.

Seconder : Sir L. L. Fermor.

(25) *Basu, Satyendra Kumar*, M.Sc., Extra Assistant Conservator of Forests, Clover Cot, Darjeeling.

Proposer : N. K. Basu.

Seconder : Sir U. N. Brahmachari.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(26) *Bor, N. L.*, M.A., D.Sc., F.L.S., I.F.S., c/o. The Conservator of Forests, Shillong, Assam.

Proposer : S. L. Hora.

Seconder : R. N. Chopra.

(27) *Anina Klebe, née Brandt*, Ph.D. (Greifswald, Germany), Psychologist, 14/1, Sudder Street, Calcutta.

Proposer : N. Barwell.

Seconder : Johan van Manen.

(28) *Hirtzel, Michael Arthur Frederick*, B.A. (Trinity College, Oxford), Mercantile Assistant, Macneill & Co., 2, Fairlie Place; 18, Alipore Park Road East, Calcutta.

Proposer : N. Barwell.

Seconder : Johan van Manen.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(8) Lt.-Col. H. W. Acton (An Ordinary Member, 1921, Fellow, 1930).

(9) Dr. P. J. Brühl (Life Member, 1909, Fellow, 1912).

(10) Dr. J. N. Maitra (An Ordinary Member, 1918).

(11) Dr. Sylvain Lévi (An Honorary Fellow, 1920).

The General Secretary read an obituary notice of Dr. Sylvain Lévi (see page 219).

The General Secretary reported receipt of news of the death of the following former Members of the Society :—

Sir John Thompson (An Ordinary Member from 1909 to 1933).

Sir D. P. Sarvadhikary (An Ordinary Member from 1909 to 1935; Vice-President from 1924 to 1929).

Dr. G. N. Mukhopadhyaya (An Ordinary Member from 1908 to 1931; Fellow from 1923 to 1931).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(19) Otto Hubert (An Ordinary Member, 1926).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 40, the General Secretary reported that the names of the following Ordinary Members would be removed from the next Member list of the Society :—

- | | |
|----------------------|--------------------|
| 1. Count Bassecwitz. | 4. Thornton Jones. |
| 2. R. Friel. | 5. Hans Koester. |
| 3. R. Y. Jarvis. | 6. C. E. Lomax. |

In accordance with Rule 48(a), the General Secretary reported that the Council, since the last Ordinary Monthly Meeting, had adopted certain modifications in the Regulations regarding the award of the various Memorial Medals awarded by the Society, as follows :—

1. BARCLAY MEMORIAL MEDAL.

Regulation 1 : *Read* 'every two years' for 'each alternate year'.

2. SIR WILLIAM JONES MEMORIAL MEDAL.

Regulation 1 : *Read* 'every three years' for 'biennially'.

3. ALL MEDALS.

Regulation 1 : *Read* 'shall ordinarily be awarded' instead of 'shall be awarded'.

Regulation 3 : *Insert* 'In any year preceding one in which the award will be due' before 'The Council shall'.

Regulation 6 : *Read* as follows :—

(6) The Advisory Board shall submit to the Council the name of the person to whom, in the Board's opinion, the Medal should be awarded. It shall be open to the Board to report to the Council that no award should be made for the year ; and, in such case, provided the Council concurs, a new Advisory Board shall be constituted in the following year, and so on, from year to year, in the manner prescribed above, till recommendation is made for an award and accepted by the Council. The period of years mentioned in Regulation 1 shall always be counted from the year of the Award.

4. PRAMATHA NATH BOSE MEMORIAL MEDAL.

Regulation 3 : Second paragraph, *read* :—

The Council shall then proceed to appoint an Advisory Board which shall include not less than three out of the names placed before the meeting by the General Secretary. The Board shall always include at least two Geological Experts ; and the General Secretary shall be an *ex-officio* member and Secretary of the Board. The Council may, for special reasons, appoint one or more Experts to the Board other than those named by the General Secretary.

Papers were presented, and Exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that a meeting of the Medical Section had been arranged to be held in the Society's Rooms, on Monday, the 18th November, at 6 P.M., when the following papers would be read :—

1. S. L. HORA.—*Recent Indian cases of live fishes impacted in the food and air passages of man.*

2. B. G. MALLAYA.—*Surgical aspect of live fishes impacted in the human food and air passages.*

The following exhibits were shown and commented upon :—

1. PERCY BROWN.—*Portrait of a Lady of the Elizabethan Period.*

Some time ago I acquired in India a miniature painting of a lady, which, according to her costume, shows that she belonged to the Elizabethan period (1533–1603), or shortly after. It is inscribed 'Badshazadi Velayet Angrez', but it is hardly likely to be the portrait of an English Princess, and I suspect this writing was a subsequent addition by an uneducated hand. It seems not improbable that this miniature was painted about the time that the costume it depicts was the vogue in England, say at the beginning of the 17th century.

The questions that arise are two : (1) who is the lady, and (2) who is it by ?

We will take the latter first. That the picture has an English origin there can be little doubt, and the English miniature painters of the early 17th century can be counted on the fingers of one hand. Among these were two of the name of Oliver, father and son, of whom we read that they were responsible for portraits of a larger size than usual, some of them measuring as much as 10 inches by 9 inches. I am presuming the date of this picture was in the vicinity of 1610, in which case the original painter would have been Isaac Oliver, the father, who would have been at his best at that date. Its size also confirms the Oliver attribution.

It is doubtful however whether it is the actual handiwork of an English painter, although this point has not been definitely decided. There is much in the technique, for instance, which it appears could only have been produced by an artist trained in the English tradition : on the other hand there are also certain indications of an oriental style of workmanship in some of the accessories. Both these somewhat conflicting conditions can, however, be more or less harmonized if it is considered that the

picture is a copy by a leading Indian artist of an original by an English artist, such as the elder Oliver.

Now for the question as to the subject of the painting. In the account of 'The Embassy of Sir Thomas Roe', the English Ambassador who spent the years 1615 to 1619 at the Court of the 'Great Mogul', there are several well-known references to the art of miniature painting. On one occasion there was an animated conversation between Roe and the Emperor Jahangir regarding a portrait of a lady in the possession of the former, and which the Emperor much admired. This miniature, it transpired, was one of Lady Roe, and eventually it was lent to Jahangir from which he had five copies made by his own Court painters, after which it was returned to the Ambassador.

In the circumstances it seems not improbable that the present exhibit was one of these copies, and, if so, it has several interests. In the first place it shows the marvellous faculty of Jahangir's artists for imitation, and also their expertness in the miniature painter's art, and its technique. But perhaps equally important it brings before us the portrait of a lady, who, as Lady Roe, appears to have possessed more than the ordinary virtues. For Roe's last will and testament includes the following:—

'Here I take my last leave of her, my most faithful loving and discreet companion in all the troubles and infirmities of my life, beseeching God that we may meet in the joys of heaven; and I desire that my whole will may be interpreted for her best advantage, for I am not otherwise able but with love to requite her merits to me.'

Mr. Brown said:—

The incidents presumed to associate this miniature with Lady Roe will be found on pages 225 and 255 of 'The Embassy of Sir Thomas Roe (Vol. 1) by W. Foster, Hakluyt Society'. In this connection it is an inexplicable fact that there is no mention of this embassy in Jahangir's own voluminous memoirs, although Roe was in frequent personal contact with this Mughal Emperor during the course of his mission.

It is fairly clear that the picture is a miniature painting copied by an Indian artist from an English original, as besides the technique there are certain details in the picture which the artist has not quite understood and has accordingly reproduced without adequate knowledge. That the Mughal painter was, however, a genius in his art is shown by the manner in which he has treated the face and hands, particularly the right hand of the lady, which is beautifully rendered. From certain differences in the brush work it is not improbable that this miniature was prepared by two artists, one being a specialist in *chitra-numā* or portraiture, and the other in *surat* or figure drawing. There may also have been a third who provided the background.

Roe's interest in miniature painting is shown by the fact that he included a small selection of these among his effects while on his travels, and the subject was brought up several times by the Emperor Jahangir who was equally interested in this form of painting, during his conversations with the Ambassador. On one occasion Roe showed the emperor

two miniatures one of which impressed Jahangir greatly, and the possession of which it is evident he coveted. Roe managed to retain this work of art by stratagem and by declaring that it was a likeness of 'a friend of myne that was dead'. Jahangir's eulogies of the portrait which Roe relates verbatim contained the remark that 'hee confessed hee neuer sawe so much arte, so much bewty, and Conjured mee to tell him truly whither euer such a woeman lived'.

As a matter of fact the lady was alive and in England, married to Roe just before he left for India, but the fact was kept secret for certain family reasons, hence the ambassador's diplomatic statement that the original of the miniature 'was now dead'. On Roe's return to England all necessity for any concealment had evidently disappeared, and they were never again separated. That Lady Roe was a devoted companion as well as a woman of strong determination is shown by her staunchness to her husband in several subsequent difficult situations while he was doing duty abroad. The miniature here exhibited seems to bear out this latter quality, which is clearly a portrait representing an aristocratic personage of more than ordinary character.

Dr. *Hidayat Hosain* said that the inscription on the miniature read 'Padshazadi vilayat angriz', the English princess, or more literally 'born of the British King'. The handwriting was modern and the inscription may date from long after the date of the picture itself.

Mr. *M. M. Bose* asked three questions as follows :—

1. Is the art of miniature painting an important art in India ?
2. If so, from where and when ?
3. What is the earliest specimen of miniature painting found, up to the present, in India ?

Mr. *Brown* replied :—

With regard to the art of miniature painting in India, it may be said that it was in its early period generally produced on paper, so that its date corresponds approximately with the introduction of paper into this country. The earliest paintings which may be designated 'miniatures', although actually they were illustrations to manuscripts, appear on the western side of India about the 9th or 10th century A.D., and there are other rare specimens of somewhat the same period which have been discovered in Bengal.

As to whether the art was imported, it may be said that the miniature, in its usually accepted form, was brought into being in India during the Mughal period, by artists from Persia, but 'paintings in little', as they were then called, were, as stated above, produced by Indian artists at an early date.

2. A. L. COULSON.—*The Patwar Meteorite.*

At the September meeting of the Society, when certain additional stones of the Perpeti meteoric shower were exhibited, mention was made of the reported fall of a meteorite near Nangalkot in the Tippera district of Bengal. As a result of enquiries made by the Geological Survey of India, it has since been ascertained that at about 14.20 hours on the 29th July, 1935, a meteoric shower occurred near the villages of Patwar (23° 9' : 91° 11'), Bhatupara, Gotrasal, Fatehpur, and Majhipara, near Nangalkot, some 20 miles due south of Comilla, the chief town of Tippera district. Patwar is only some 17 miles south-east of Perpeti, also in the Tippera district, which is the locality of the shower referred to above. The two falls, however, are

distinct, but it would be interesting to learn of any other occurrence of two separate meteoric showers within 17 miles of each other after a lapse of two and a half months.

So far three specimens, totalling 35,013.5 grams, which fell at the three first-named villages, have been recovered, the largest (23,111.6 grams) falling at Patwar which gives its name to the fall. However, two small additional stones from the villages of Fatehpur and Majhipara have been recovered and sent to the District Magistrate, Comilla; it is hoped that these will be received in time for them also to be exhibited at this November meeting of the Society.

The fall was accompanied by the usual phenomena of light and sound. A dazzling light following a 'loud rumbling noise' is supposed to have been the first indication to the villagers of the fall of the meteorite. The sound is stated to have been so loud and continued that those in the police thana at Chauddagram, some 7 miles to the north-east of Fatehpur, the nearest locality to the thana from where stones were recovered, distinctly heard it. Four reports 'like thunder' were heard in quick succession. One observer adds that a peculiar sound like 'that of an aeroplane' followed the reports; this may have reference to the passage through the atmosphere of the disrupted members of the parent meteorite.

The largest specimen penetrated the ground to a depth of 34 inches.

The parent meteorite appears to have been moving in a west-south-westerly direction. The smallest pieces fell first, followed in succession by the larger. The total rectangular area covered by the shower is roughly about $4\frac{1}{2}$ square miles, the length being some three miles in the direction E.S.E.-W.S.W.

The meteorite has great interest on account of its rather rare composition. It belongs to the group of mesosiderites, being a siderolite intermediate in composition between a stone and an iron. It contains large crystals of olivine and masses of nickel-iron of fair size. It is composed chiefly of nickel-iron, with olivine, enstatite and bytownite, with smaller amounts of schreibersite, troilite, oldhamite, lawrencite and hydrocarbons. Its specific gravity is 4.21.

The Patwar mesosiderite will be described in a paper appearing in the *Records* of the Geological Survey of India. The specimens are exhibited by permission of the Director, Geological Survey of India.

Dr. Coulson stated that this was the third successive meeting of the Society at which he had exhibited meteorites. Consequently it was with considerable diffidence that he addressed the Members present, but he claimed their indulgence as the specimens of the Patwar meteoric shower of the 29th July, 1935, were of great scientific interest and rarity, belonging to the sub-group of mesosiderites intermediate between meteoric irons

and stones. In order that Members might note the intermediate character of the specimens of the Patwar shower, Dr. Coulson drew their attention to a specimen of the Bahjoi iron meteorite which Dr. Krishnan had exhibited at a previous meeting of the Society. Iron meteorites are far rarer in occurrence than stone meteorites and the Bahjoi meteorite, which fell on the 23rd July, 1934, in the Moradabad district of the United Provinces, was the first iron meteorite recovered in India since the shower of meteoric irons at Samelia in Rajputana on the 20th May, 1921, which was described by your President. The attention of members was also drawn to a typical specimen of a meteoric stone, one of the Perpeti meteoric shower of the 14th May, 1935, which Dr. Coulson had exhibited at the August meeting of the Society.

Dr. Coulson stated that Members would be pleased to learn that the two additional stones, each weighing about a kilogram, that had been mentioned in the account of to-day's exhibit, had been received by the Geological Survey and formed part of the specimens on the table. Altogether five specimens of a total weight of 37,353.28 grams had been recovered from the Patwar fall and this made the fall rank third in the total amount recovered from any particular meteorite fall and in the possession of the Geological Survey of India. It was exceeded by the Merna fall of August 30th, 1920 (71,406 grams), and the Kuttippuram fall of April 6th, 1914 (38,437 grams).

It was interesting to note that the largest stone, weighing some 23 kg., had penetrated the soft ground to a depth of 34 inches, whilst the two next largest stones had penetrated 24 inches. Details as to the depth at which the smallest stones were recovered, were not available.

The third largest stone had been cut in two for purposes of study and the cut surfaces had been highly polished. The structure of the mesosiderite showed up well on the polished surface. The large crystals were either composed solely of olivine or of a granular aggregate of olivine and bytownite feldspar. The dull metallic-looking mineral was nickel-iron in one or other of its various alloys. The other minerals present were given in the account of the exhibit.

Finally Dr. Coulson drew attention to the proximity of this fall to the Perpeti fall, Perpeti being some 17 miles north-west of Patwar. The composition of the two meteorites was totally dissimilar, however. He added that while the Perpeti shower covered a rectangular area of some 15 square miles with the shorter side of three miles in the direction of flight of the parent meteorite before it was disrupted, the Patwar shower covered the much smaller area of $4\frac{1}{2}$ square miles, the longer side of three miles being in the original direction of flight.

The President in inviting discussion upon Dr. Coulson's exhibit said that he did not share Dr. Coulson's regrets that he (Dr. Coulson) had had occasion to address the Society upon meteorites at three successive meetings. Considering the great interest inherent in these visitors from outer space everyone would agree that there would be a welcome for all the exhibits of meteorite material that could be placed before the Society.

The present meteorite was one of exceptional interest in that it was a mesosiderite occupying an intermediate position between stony and iron meteorites. Although many meteorites had fallen during his service in India Sir Lewis could not recall that any one of them had been a mesosiderite.

Prof. J. N. Mukherji asked whether any systematic determination of the atomic weights of elements found in meteorites had ever been carried out.

Dr. Coulson replied that he was not aware of any recent research in this direction.

Baron W. Ow-Wachendorf drew attention to the locally so-called 'meteoric iron' surrounding diamonds in South-West Africa. Was that iron really meteoric or was it ironstone derived by lateritic processes from the gravels?

Dr. Coulson replied that probably the latter explanation of the origin of the ironstone was the correct one. Diamonds of course were known to occur in iron meteorites, but it was most unlikely that the 'iron' surrounding the diamonds in the gravels was actually iron and not one of the oxides, and that it had a meteoric origin. Baron Ow-Wachendorf was no doubt aware that it was at Hoba in South-West Africa that the largest known iron meteorite occurred—this weighed 60 metric tons and was still *in situ*.

Mr. H. Hobbs asked if there were any elements in meteorites that had not been found in the rocks of the earth's crust.

Dr. Coulson replied that there were no such elements. Not all the elements found terrestrially, however, had been found in meteorites, those of high atomic weight, with the exception of the platinum metals, generally being absent from meteorites. The apparent universal absence of barium and strontium may perhaps be accounted for by the paucity of feldspathic minerals in the meteorites examined. It was interesting to note that there were two minerals occurring in meteorites that had not been detected in terrestrial rocks as they could not exist unaltered in the conditions of oxidation characterising the crustal regions. The minerals were oldhamite, the sulphide of calcium named after a former Director of the Geological Survey of India, and schreibersite, a phosphide of iron, nickel and cobalt.

Mr. Van Manen referred to the article on 'Meteorite' in the 'Encyclopædia Britannica' and stated that he would like further information with regard to three statements made therein. The first was the statement regarding the general similarity of meteorites in chemical composition and the fact, that they were supposed to be derived from a single celestial body. The second statement was to the effect that though the earliest recorded fall in China was about 644 B.C., strange to say, until quite recently, no meteorite in that country appears to have been preserved. Was this due to any geographical immunity of China from meteorite falls or to some superstitious awe in which meteorites were held being responsible for their being destroyed by the inhabitants? The third statement was to the effect that with the exception of one meteoric iron found in Pliocene gravels in the Klondike, 'fossil' meteorites are unknown. What was the sense in which the term 'fossil' was used?

Dr. Coulson replied that he was pleased that Mr. Van Manen had raised these three points as he recently had had occasion to refer to the article in question when preparing material for a lecture delivered before the Mining and Geological Institute of India at Dhanbad.

The first question raised the vexed problem as to the origin of meteorites. Members were aware of the nature of comets with their relatively small mass spread through a large volume of space. The tails of comets are in a much more finely divided state than the heads which are made up of fairly large lumps for which the gravitational force is stronger than the repulsive force from the sun which affects the tails. These lumps are some feet in diameter comparable in size with large meteorites. Comets are part of the solar system which contains a very large number of them. Their orbits are elliptical and some of the long-period comets can recede away from the sun quite a large fraction of the 25,000,000,000,000 miles separating us from the nearest fixed star. It has been suggested that meteorites are identical with the material of comets and in that case to be moving through space in swarms with definite orbits. However, while certain meteorites may perhaps be the debris of comets, we must look elsewhere for the origin of the greater number of them.

Dr. Coulson referred briefly to meteors, which term is restricted to those cosmical bodies which, entering the earth's atmosphere from without and shooting across the sky, give the appearance of a bright star in rapid motion. Meteors are only a few milligrams in weight but it has been held by some that there is a gradual transition from them to meteorites.

However a study of the times of occurrence of meteor showers shows that they do not agree with meteorites in the months in which they are most plentiful and, also, only one meteorite, the Mazapil iron, has been known to fall during a shooting star display. It has been shown, in addition, that though there is an intimate connection between the orbits of comets and some meteor streams, yet many of the meteors must have come from solar systems other than our own. The parabolic velocity of 26 miles per second, which a body falling from rest at an infinite distance towards the sun attains when it passes the earth's orbit, is the maximum that a body can have if it originated in our solar system. Of course when considering the maximum velocity that a meteorite can have relative to the earth, due account must be made of the velocity of the earth in its orbit. Taking into account also the velocity due to the earth's attraction and neglecting the earth's surface velocity, the maximum velocity relative to the earth with which a meteorite can fall if it originated in our solar system is about 47.4 miles per second and the least about 8.2 miles per second. It has been calculated from the observed velocities of meteors that certain of them must have originated in solar systems other than our own.

If most meteorites have been derived from the disruption of a planet or planetoid in the solar system, the question naturally arises as to when this disruption took place. Here we have the assistance of the very valuable work performed recently by F. Paneth and his assistants in the measurement of the helium content of iron meteorites with a very sensitive apparatus. If meteorites are the scattered portions of our solar system, then their age cannot be greater than that of the solar system itself which is assumed to be about 3,000,000,000 years at the utmost. If, however, meteorites came from other stars, it is possible that the period of their solidification could date back some 10,000,000,000,000 years. Not one of the iron meteorites studied had been found to be older than 2,900,000,000 years and so the solidification date accords well with the assumption that iron meteorites, and we may presume stone meteorites as well, originated not from distant celestial bodies but from our solar system. The date of solidification, also, ranges in time almost up to the date of the birth of the earth and the solar system and it may be that meteorites represent ungarnered fragments from the birth of the solar system and not the product of the later disruption of a planet or planetoid.

With regard to Mr. Van Manen's question concerning the absence of meteorites from China, there is no fundamental reason why meteorites should be more numerous upon one part of the earth's surface than on another. There is thus no reason to presume that meteorites have not fallen in China just as frequently as in other parts of the world and the absence of records may be due to some such cause as suggested by Mr. Van Manen.

The term 'fossil' meteorite was used in the usual sense of the word 'fossil' as being something, in this case a meteorite, entombed in strata that was being laid down contemporaneously. The absence of fossil meteorites, except for the single case of one in the Pliocene gravels of the Klondike, may be due to weathering, metamorphic and other agencies so altering meteorites as to render them unrecognizable as such.

The President, referring to the question of the rarity of fossil meteorites, expressed the view that no satisfactory conclusion could be drawn from the absence of fossil meteorites from all geological formations except for the single case from the Pliocene gravels of the Klondike. Meteorites appear never to have penetrated far below the surface of the earth, except possibly in the case of meteorite craters; further stony meteorites are very susceptible to weathering, with the result that the collections of the world contain only those stony meteorites that have actually been seen to fall. The number of iron meteorites in the collections of the world is of the same order of magnitude as the number of stony meteorites, but only a very small proportion of these iron meteorites have been seen

to fall, the majority of the irons in collections have been found lying on the surface, usually in desert countries such as Chili, South-West Africa, and Australia, where there are no accumulations of vegetation to hide them. Falls of irons are in fact very much rarer than those of stones.

Considering the rarity of meteoritic falls of either composition as compared with the total mass of stratigraphical deposits, and the great liability to decomposition of the commoner of these, the stony meteorites, the chances of finding fossil meteorites enclosed in geological formations appeared to the speaker to be so remote that no conclusion could be drawn from such negative evidence on the date of disruption of the celestial body from which these meteorites must have been derived.

Sir *Lewis* expressed the opinion that concerning the possible sources from which meteorites may have been derived two hypotheses are worthy of serious consideration. One hypothesis is that the solar system was formed from the disruption of a primordial dark sun, due to the close passage of a stellar body from outer space, which by tidal attraction tore off the crust of our dark sun, scattering fragments of this crust into space and exposing the still hot centre of our sun. The disturbing body then passed on and our sun regained gravitational control of its scattered crust with the formation of the planets. Many fragments have naturally remained ungarnered through the ages, and some of these continue to fall into the earth and are the source of the supply of our collections.

The other attractive hypothesis is that which ascribes the formation of the meteorites to a somewhat later date, namely the date of departure of the moon from the earth, assuming that when this happened the earth already had a solid crust. On this hypothesis the meteorites that we now receive represent samples of our earlier earth returning to us.

Each of these hypotheses necessitates the view that the primordial body, either sun or earth, had a solid crust, and enables us to assume that the stony meteorites, the mesosiderites, and the iron meteorites, represent successively deeper levels below the surface of the primordial body.

The investigation into the helium contents of meteorites may enable a choice to be made between these two hypotheses, but this will only be possible if the source of the helium contained in meteorites is known.

Mr. *Hobbs* asked whether hailstones could be termed meteorites.

Mr. *Van Manen* said that in accordance with the etymological sense the word meteor was used by the ancient Greeks for all 'things of the air', or atmospheric phenomena in general, including clouds, cyclones, typhoons, the aurora borealis, ignis fatuus, and rainbows. According to this use of the term airships may perhaps be called meteors. The word meteorite is defined in an authoritative work of reference as a mass of matter from outer space which has fallen upon the earth's surface. As hail is not formed in outer space, hailstones (nor, for the matter of that, snow flakes or drops of rain or 'rains of fishes', of which we have recently heard so much) can strictly be called meteorites.

However, an interesting quotation from Bishop Hall in Webster's *New International Dictionary* speaks of 'Hail, an ordinary meteor'. The same dictionary states that meteorite is 'loosely' used for meteor or meteoroid. Whittier had written:—

'In starry flake, and pellicle, All day the hoary meteor fell.'

The matter afforded a good example of verbal 'relativity'.

Mr. *H. Hobbs* referred to the obliquity of fall of certain meteorites and asked for further information in this respect.

Dr. *Coulson* stated that it was usual for meteorites to form small holes when they reached the earth's surface but the nature and obliquity of that hole depended upon the speed of the meteorite. He had already referred to the very great differences in velocity with which it was possible

for a meteorite that had originated in the solar system to reach the earth's surface. The cosmical velocity of meteorites was slowed up by the resistance of the earth's atmosphere. Schiaparelli had made experiments on a small ball, $1\frac{1}{2}$ inches in diameter, of specific gravity 3.5. He had calculated that with an initial velocity of nine miles per second, the ball would have a velocity of one-third of a mile per second when it arrived at a point where the barometric pressure was one-sixty-sixth of the earth's surface atmospheric pressure; if the original velocity were 40 miles per second, then the reduction in velocity at the same point would be greater. Thus very frequently meteorites lost their cosmical velocities and fell to earth under the attraction of the earth alone and the heights from which certain meteorites had done this had been calculated by Niessl.

The direction of penetration of a meteorite is not always vertical since the direction of motion of the meteorite is sometimes tangential. Thus the largest stone of the Knyahinya fall penetrated the earth to a depth of 11 feet in a hole which was inclined to the vertical by as much as 27° . Smaller deviations from the vertical are common.

Mr. W. D. West referred to the fact that in the current number of *Nature*, there was a letter by Mr. M. A. R. Khan discussing the authenticity of persons ever having been killed by falling meteorites. Could Dr. Coulson throw any further light on the matter?

Dr. Coulson replied that he was unable to throw any further light on the subject but stated for the benefit of Members that the letter in question was written with reference to a review in *Nature* of Heide's 'Kleine Meteoritenkunde' in which it was stated that there is no certain evidence of any person having been killed by a falling meteorite. Mr. Khan referred amongst others to two Indian cases in 1827 and 1870 but the writer of the review concluded that unless the two cases in question are better substantiated than the others mentioned by Mr. Khan, he preferred to accept Professor Heide's statement that 'noch kein einziger, sicher beglaubigter Fall ist vorgekommen, dass ein Mensch von einem Meteoriten erschlagen oder verletzt worden ist'.

Dr. Coulson added that Members would be interested to learn that one of the cases of a near escape cited by Mr. Khan was that of a shepherd at a distance of 12 paces from whom one of the stones of the Naoki meteorite shower of the 29th September, 1928, was stated to have fallen. Dr. Coulson had described this shower in the *Records* of the Geological Survey of India.

The President said that although there appeared to be no definite record of human beings ever having been killed either by falling meteorites or by hailstones, yet there was the record in the Bible of the stones which fell down from heaven. 'And it came to pass that the Lord cast down great stones from heaven upon them.' (Joshua 10, 11.) It is evident that these stones must either have been meteorites or hailstones.

Mr. Hobbs stated that he had a cutting from a newspaper giving a record of the death of two persons from falling meteorites.

Dr. Coulson said he would like to see this report.

Mr. L. R. Fawcus drew the attention of Members to the Greek story of Aeschylus being killed by a falling turtle dropped on his head by an eagle. It might be possible that this story had reference to the fall of a meteorite.

Mr. Van Manen referred to the general Indian belief that falling coconuts never harm or kill people.

3. JOHAN VAN MANEN.—*Some Tibetan Tankas.*

Of late years increasing interest has been shown in Tibetan scroll-paintings, or *tankas*. G. de Roerich has in 1925 published a valuable monograph on the subject in which a large number of such *tankas* were reproduced. An appreciable amount of

material on the subject is now available in print. The statement made in 1925 that 'our present knowledge of Tibetan pictorial art is not sufficient to enable us to discuss various schools of art' remains true.

It is, nevertheless, possible to discuss special points which from time to time arise. The purpose of this exhibit is to draw attention to a style of painting of a very distinct character, of which the examples known to the exhibitor are of a high artistic quality. The style is in contradiction to the one of the majority of *tankas*, which are executed in a great variety of colours on the same scroll, and is limited to the use of a black background with all outlines in thin gold lines and the use of only red, or red and white, to colour clothing and skin.

A few samples are exhibited, showing various stages of development, and for purposes of comparison samples of the more common type of *tanka* are placed in juxtaposition.

Mr. Van Manen said that though all present would probably have seen many tankas, they might not realize how scanty detailed knowledge was on the subject of this fascinating kind of Tibetan art. Safe canons for dating had not yet been evolved and this particular branch of enquiry was complicated. Presumable age was often a matter of appearance. Tibetans scarcely ever date their tankas, but the Nepalese very often date theirs. From such dates it was apparent that the freshness of a tanka was greatly influenced by the manner of its preservation. Copies that looked recent might have dates going back as much as three or four centuries, simply because they had been carefully preserved. Other specimens might appear old though their dates showed their newness, again simply because they had been carelessly kept and roughly handled. Ritual fumigation was an important element in this matter. Though it was true that in modern times stereotyped models had been and were being reproduced as copies, recognizable by crudeness of colouring and uncertainty of outline, it was equally evident that there are many bad old pictures as well as good new ones. A similar uncertainty existed with reference to schools. Though different types may be recognized the time for classification has not yet come. The speaker would however suggest that at least one broad division may already be made, however general such a division would have to remain for the present. He thought there was a definite difference between what he would call the Indo-Tibetan style and the Sino-Tibetan style. A curious observation which he has made was that a small number of tankas which he had seen looked almost Japano-Tibetan. He would however not enter into that matter. Quite apart from date or school there is a division according to manner. In his own collection he had a few specimens of an entirely rare kind, more or less modernistic, and executed in a crayon-like manner. His subject for the evening was limited to a class of paintings described in the introductory paragraph on the programme. He had the impression that these specimens must be old, an opinion, endorsed, for what it may be worth, by his Tibetan friends. The outlines were well-finished and delicate. There was a sureness of touch of remarkable vigour and skill. The devils were ugly, but they were meant to be ugly. The accessory figures showed graceful delicacy: miniatures of high quality. He had enquired whether this type of painting might be related to a particular sect, and specially whether it might perhaps be reserved for Tantric representations. He was told that this was not the case. He would leave the matter there and invited the audience to inspect the tankas in detail.

Mr. Percy Brown remarked :—

As to the age and other particulars of the Tibetan Temple Banners or Tangkas, as these have been prepared for centuries almost always according to the same conventions and traditions, it is difficult to classify them into any reliable periods. Some of the tangkas recovered by Sir Aurel Stein from sites in Eastern Turkestan and known to date from 8th, 9th and 10th centuries A.D. differ very little in subject-matter and technique from those prepared at the present time. Appearance and condition is also an unreliable guide, as some tangkas exposed on the walls of the *gompas* speedily take on a deposit of smoke and look very old, while others carefully rolled up retain their fresh colouring for a long period.

It is doubtful whether much help in classifying and dating these banners can be expected from the monasteries, as these institutions have little reliable knowledge on the subject, although occasionally some valuable and intelligent information is forthcoming from these sources. It is more likely that a beginning will come from India, either through inscriptional evidence or by comparing the technique of these tangkas with that of some of the Indian schools of painting. Once a fixed point is indicated and a start made some progress may be anticipated, but at present any dating of these is very largely speculation.



DECEMBER, 1935.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT.

SIR LEWIS FERMOR, Kt., O.B.E., D.Sc., A.R.S.M., F.G.S.,
M.INST.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Auden, Mr. J. B.
Bogdanov, Mr. L.
Brahmachari, Sir U. N.
Brandt, Dr. A. Klebe
Brown, Mr. Percy
Chanda, R.B. R.
Chakrabarti, Mr. S. K.
Chatterjee, Mr. P. P.
Chatterji, Dr. S. K.
Coulson, Dr. A. L.
Darbari, Mr. M. D.
Dey, Mr. Mukul
Driver, Mr. D. C.

Dutt, Mr. M. N.
Gangoly, Mr. O. C.
Haq, Mr. M. Mahfuz-ul
Heron, Dr. A. M.
Hobbs, Mr. H.
Hora, Dr. S. L.
Majumdar, Mr. N. G.
Manen, Mr. Johan van
Neogi, Dr. P.
Olpadvala, Mr. E. S.
Prashad, Dr. Baini
Rao, Mr. U. S.
Stagg, Lt.-Col. M.
West, Mr. W. D.

Visitors :

Brown, Mrs. Percy
Fermor, Lady

Pulley, Lt.-Col. O. C.
Sarkar, Sir Jadunath

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of six presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidate would be balloted for as an Ordinary Member :—

(29) *Blakiston, J. F.*, Director-General of Archaeology, New Delhi.

Proposer : Sir Lewis Fermor.

Seconder : A. M. Heron.

The General Secretary reported the death of :

Dr. H. F. Osborn (An Anniversary Centenary Member, 1934).

Dr. Bains Prashad read an obituary notice of Dr. Osborn (see page 221).

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(13) F. Williamson (An Ordinary Member, 1934).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(20) Karmajogi Ray (An Ordinary Member, 1934).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 48(a), the General Secretary reported that the Council had adopted certain Regulations regarding the award of the Indian Science Congress, Calcutta Prize, last year, which had not been announced in the Monthly Meeting as usual.

The Regulations are as follows :—

REGULATIONS REGARDING THE AWARD OF THE INDIAN SCIENCE
CONGRESS CALCUTTA MEDAL.

- (1) The Medal shall ordinarily be awarded at the Ordinary Annual Meeting of the Asiatic Society of Bengal, in February, in such years as the session of the Congress is held in Calcutta.
- (2) The Medal shall be bestowed on a person who, in the opinion of the Council, has rendered conspicuously important services to the Indian Science Congress, or on a Member of the Indian Science Congress who, in the opinion of the Council, has made conspicuously important contributions to science.
- (3) In any year preceding one in which the award will be due the Council shall, at a meeting preceding the Ordinary Monthly Meeting in November, appoint an Advisory Board consisting of not less than Five Members.
- (4) The Advisory Board shall be termed 'The Indian Science Congress Calcutta Medal Advisory Board'. This Board shall include the Biology, Physical Science, Anthropology, Medical and General Secretaries. The Board shall appoint a Chairman from amongst its members who shall have a casting vote (in addition to his own vote) in the event of the number of votes being equally divided.
- (5) The General Secretary shall call a meeting of the Advisory Board on the first convenient date subsequent to the first Monday of December, at the same time requesting members to bring with them to the meeting detailed statements of the

work or attainments of such candidates as they may wish to propose. The General Secretary shall also place before the Board for consideration detailed statements of the work or attainments of any other candidate submitted by any Fellow of the Society. The Board shall make such arrangements as may be necessary for the selection of a name to be submitted to the Council at its December meeting.

- (6) The Advisory Board shall submit to the Council the name of the person to whom, in the Board's opinion, the Medal should be awarded. It shall be open to the Board to report to the Council that no award should be made for the year; and, in such case, provided the Council concurs, a new Advisory Board shall be constituted in the following year, and so on, from year to year, in the manner prescribed above, till recommendation is made for an award and accepted by the Council. The period mentioned in Regulation (1) shall always be counted from the year of the award.

Papers were presented, and Exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of the Ordinary Member and declared that the candidate has been duly elected.

The Chairman announced that a meeting of the Medical Section had been arranged to be held on Tuesday, the 17th December, at 6 P.M.

The following papers were presented :—

1. N. L. BOB.—*The Oath among the Daffas.*

Introductory note on the locality, history, and characteristics of the Daffas.

The psychological background. The sorcerer and his stock-in-trade.

The sorcerer's implements and materials. The association of ideas connected with them. The sacrificial post.

Two classes of oaths: of ultimate and immediate results.

Ordeals by boiling water and hot iron. Record of cases observed.

Detailed descriptions of the oath on the tiger's tooth, the oath followed by an ordeal by boiling water, the oath followed by an ordeal by red-hot iron, and the 'death'-oath.

In the absence of the author Rai Bahadur R. Chanda presented the paper, giving an abstract of its contents. He said that the paper was well-written and contained valuable information. He had to draw the attention of his hearers to one remarkable aspect of the paper. The author reported some strange cases of ordeals, one by boiling water, and two others where death followed after the taking of a false oath. The last two might be attributed to natural cases, but the ordeal by fire was incredible. He doubted whether the author took proper steps beforehand to prevent deception. The hand of the subject should have been examined before he was allowed to dip it into boiling water, and again when he took it out. Such records were certainly of value but should be critically examined. The speaker referred to the well-known dry-rice ordeal prevalent throughout India, based on the fact that a nervous condition of the subject prevented normal salivation.

Sir *Lewis Fermor* remarked that a rational scientific explanation was possible of the case of a person undergoing successfully the ordeal of plunging his hand into boiling water or oil or molten lead. All that was necessary was for the hand, prior to immersion, to be coated with some substance that on volatilization would produce a protecting covering of vapour round the hand so as to prevent the boiling or molten liquid from coming in actual contact with the hand. This was the basis of the well-known Leidenfrosts phenomenon, in which a liquid in the spheroidal state is supported on a cushion of its own vapour.

He might claim to have undergone ordeal by liquid oxygen, when at College a drop of liquid oxygen was poured into the palm of his hand. The temperature of this liquid oxygen was, of course, nearly 200° below zero centigrade, and had the liquid come in contact with his hand, it would have produced a very severe burn. The secret of surviving such ordeals satisfactorily was to make their duration as short as possible and to remove the hand before the protecting cushion of vapour had disappeared and thus permitted the cold or hot liquid actually to make contact with the hand.

Mr. *Van Manen* said that he considered the word incredible too strong an expression, indicating a prejudgment. Though caution and discrimination were always desirable they should not extend to a *priori* scepticism. The subject of ordeals had an extensive history. Natural explanations of strange observations had often been plausibly given. He remembered a discussion on ordeals by liquid resin in the Dutch East Indies in which it was suggested that the richer of the parties concerned bribed the officiating priest to furnish resin with a lower melting point than to his poorer rival. Other fire ordeals had been explained by a previous coating with alun invisible to superficial observation. On the other hand there were records of such strange phenomena as stigmata, immunity to pain in a hypnotic condition, hypnotic rigidity, and so on, and the whole range of instances of susceptibility to suggestion amongst primitive races, self-induced or otherwise. One should carefully refrain from dogmatic scepticism. If a careful and unsuspected observer gave a detailed record of observations in the field, closet-students in the city should not immediately lay down what can and cannot be. We should remember the gibe in Goethe's *Faust* where Mephistopheles says : —

Daran erkenn' ich den gelehrten Herrn !
Was ihr nicht tastet, steht euch meilenfern ;
Was ihr nicht fasst, das fehlt euch ganz und gar ;
Was ihr nicht rechnet, glaubt ihr, sei nicht wahr ;
Was ihr nicht wägt, hat für euch kein Gewicht ;
Was ihr nicht münzt, das, meint ihr, gelte nicht.

It was better to listen, and to file provisionally for reference, until sufficient data for analysis and judgment should be available, than to judge prematurely. As far as the reported cases of death were concerned, there existed ample testimony concerning remarkable cases, amongst nature people, of a power to 'give up the hold on life', of people simply determining not to continue living and duly dying in consequence. Bodding has an interesting passage on this subject in his *The Santals and Disease*, p. 8.

Prof. *P. Neogi* said that ordeals have psychological bearings. The well-known 'rice' ordeal is based on the psychological difference in the culprit and the innocent person causing the secretion of different quantities of saliva. The result would be that the rice coming out of the mouth of the culprit would be dry, as he would be so frightened out of his wits as not to secrete any saliva, whilst the innocent person would secrete a sufficient amount to moisten the rice.

In the case of the 'boiling water' ordeal mentioned in the paper the culprit would be afraid to put his hand into the water. The innocent

man would keep his hand perhaps too long in it in order to prove his innocence and hence might get his hand scalded.

Mr. U. Shanker Rao drew attention to the recently reported fire-walking test made in London. Pictures had appeared in the *Daily Mirror* and other illustrated papers. The subject had been discussed in one of the recent numbers of *Nature*. The speaker registered his disagreement with the attitude of Rai Bahadur R. P. Chanda.

Dr. Baini Prasad remarked that Mr. Bor's observations were of value as records of oaths, and were not submitted as critical studies on or explanations of the ordeals undergone by the Dafias in connection with oaths on special occasions.

Mr. P. P. Chatterjee said :—

Compurgation and ordeals—such as putting the hands into boiling water, walking on red-hot iron, etc.—are spoken of as prevalent among the Druids in old Britain. In India also such ordeals were common in ancient days. Fire ordeals are sometimes explained by the suggestion that at a certain very high temperature the hand will not, in accordance with some law of thermo-dynamics, be injured or equally so through some psychological factor in accordance with the law of dominant mental impression. Either the phenomenon is the result of the operation of some law of thermo-dynamics, or due to the action of the law of dominant mental impression on the subconscious mind, a subject for the experts in psychology or calorimetry. In his remarks the speaker had assumed it to be a fact that innocent persons had in many cases come out of the ordeals unhurt, as history had recorded such cases; otherwise trial by compurgation or ordeal would not have remained prevalent for so long a time.

Mr. Chanda replying to the various speakers said that he had no quarrel with them in so far as they pleaded for the open mind. On the other hand openmindedness should not do away with a critical and scientific spirit. Caution should not go to the other extreme of credulity. He wished to make it clear that what he had said had not been intended in a spirit of prejudgment. All present would admit that the subject of ordeals was a mysterious one, as well as an interesting one, and that Mr. Bor had given a valuable description but no definite explanation.

Sir Lewis Fermor remarked that the aim of the paper was not to elicit a general discussion on the subject of judgments by ordeals and suggested that if no one had any further remarks to submit regarding the oaths of primitive people in general or of the Dafias in particular the meeting might now pass on to the next paper.

2. M. DHARMARAJAN.—*Anatomy of Otolithus ruber* (Bl. & Schn.). Part I. *Endoskeleton*.

Among the students of Zoology in the South Indian colleges, there has been a long-felt need for a suitable work dealing with the anatomy of a local Teleostean fish. With a view to supplying this demand the author has chosen *Otolithus ruber*, a large and edible species of Sciaenid fish, common throughout the Coromandel Coast, and in this paper a complete account of its endoskeleton is given. Detailed descriptions of all the principal sections of the axial and appendicular skeleton are given with illustrations.

In the absence of the author Dr. S. L. Hora communicated the gist of the paper and remarked that a subject of this nature does not lend itself to being read out in detail. The material is only useful to those who study this species of fish, as a type, in South Indian Universities, or to specialists who may use the data so laboriously collected by the author for purposes of a comparative study of fish skeletons. Last

year the Society had published a similar paper on the skeleton of Rohu (*Labeo rohita*) for the benefit of Northern Indian Universities, and in publishing the present paper the Society would be helping the Universities in the South. The students of zoology in India had hitherto been studying European types and had consequently considerable difficulties in obtaining the necessary material in a proper state of preservation. Within the last decade several valuable memoirs had appeared on Indian types and the teachers and students were finding them very useful. The present paper would be a valuable addition to suchlike memoirs and it was hoped that the author would not delay the publication of an account of the soft parts to complete the memoir.

The following exhibits were shown and commented upon:—

1. SIR LEWIS FERMOR.—*An Iron Horse from the Central Provinces.*

This exhibit was obtained some 32 years ago from the top of a hill of manganese-ore in the Chhindwara district. The manganese-ore cropped out in large black masses, which in one place had been daubed with red paint and treated as a village god. Lying about were a number of clay horses and an iron one. This hill has since been worked as a manganese mine, and is now represented by a large hole in the ground.

The interest of this specimen is perhaps three-fold. In the first place it has been exposed to the moist air of Calcutta for over 31 years, without any appearance of rust, from which one can deduce that it is made of very pure iron, as in the case of the iron pillar at Delhi. Its age, of course, is unknown.

The second point of interest is that it must be regarded as an example of primitive art. It is made mainly from three pieces of iron—one piece forming the head, the body and the tail, another piece the front pair of legs, and a third piece the hind pair. The way in which the pairs of legs are bent over the body provides a representation of a saddle. In addition, there are two extra small pieces of iron welded on to form the ears. Two touches of vermilion on the head suggest the eyes. The horse is so constructed as to be unstable when standing on its four feet, but to be stable standing on a tripod consisting of its hind legs and tail. It is a little over 7 inches long, and is in consequence less than one hand high !

I have shown this horse on occasion to many people, and no one appears to have seen a similar horse before, but—and this is the third point of interest—it has been suggested to me that it should be compared with the horses that are offered to the Southern Indian village deity known as Iyenar—a beneficent male deity, who is regarded as the village watchman and whose duty is to patrol the village and fields at night. If this suggestion is correct, it is an indication of the extension of this South Indian deity as far north as the Chhindwara district in the Central Provinces. An account of Iyenar is given in Bishop Whitehead's 'Village Gods of Southern India'. These village

gods, according to Bishop Whitehead, date from before the Aryan invasion and must be regarded as Dravidian deities. The Gonds of the Central Provinces are, of course, Dravidians, and it is not, therefore, surprising that worship of this deity Iyenar may have extended to the Central Provinces. I was not, however, given any name for the deity, and have no knowledge whether there is any local name for Iyenar in the Central Provinces.

After showing his exhibit and explaining it in the terms of the description given in the meeting notice, Sir Lewis Fermor invited Professor P. Neogi, as an authority on the subject of iron in ancient India, to contribute to the discussion.

Professor Neogi said:—

As regards the iron in the horse it is to be remembered that after the Neolithic age Northern India had a copper age and Southern India an iron age so far as implements are concerned. All iron, beginning with the iron pillar at Delhi to the iron pillars at Dhor and Mount Abu, the girders of Puri, Bhubaneswar, and Konarak, down to the Mughul cannons, has been found on analysis to be pure wrought iron. Therefore, without analysis it can safely be said that the iron of the horse now exhibited is pure wrought iron.

As regards the ethnological importance of the exhibit, it is rather remarkable that Aryan mythology has many animals as the mounts of Aryan gods and goddesses, such as the lion, the peacock, the eagle, the elephant, and even the mouse, but not the horse (except perhaps as a duplicate mount of Indra, and as connected with the sun-god with seven horses to his chariot). The iron horse therefore may be of Dravidian and not of Aryan origin. The primitive nature of the workmanship of the horse points perhaps to a prehistoric age and if that should be proven to be actually the case the exhibit would be an important one in the history of iron in ancient India.

Mr. U. S. Rao remarked:—

A point of particular interest, specially to naval architects and marine engineers, is whether this metal has been rested by immersing in salt water and examined as to whether it would remain clean without the appearance of rust. If it were possible to manufacture this metal so that it should not rust even in contact with salt water it would probably revolutionize ship building.

Mr. Percy Brown remarked:—

With regard to the statement in Sir Lewis Fermor's note that 'lying about were a number of clay-horses', Mr. Percy Brown observed that on more than one occasion in the Punjab his attention had been called to a collection of small terra-cotta models of horses forming a mound near a shrine. These ranged from a mass of old and disintegrated examples in the centre of the pile to a number of perfect specimens on the fringes which had apparently only recently been added. In answer to his enquiry he was told that a saint, or *fakir* was buried on the spot, who during his lifetime had shown an exceptional fondness for horses, an explanation which however he did not consider altogether satisfying.

As to the particular horse exhibited by Sir Lewis, he noticed that its true pose was evidently rampant, and that that posture was always the one represented in the seven coursers of *Sūrya*. He therefore raised the question as to whether this iron example was not one of the steeds of the Sun God, indicating that the mount was associated with Sun-worship.

In any case a most interesting fact connected with this particular specimen was its artistic character, for as a type of primitive art, it was in a class by itself. In view of the cult in Europe for works of this nature, of primitive and elemental art often of vast antiquity, he thought that if it were exhibited there it would create no little sensation.

Mr. *Van Manen* referred to the custom amongst the Bhils of making offerings of rude images of horses. It had been suggested that these horse-images may be intended as steeds on which the spirits of the dead may ride to heaven. The Koravas believe that after death a good man's spirit may enter the body of a horse, a cow, or some other higher animal. In Gujrat the worship of Ghora Dev, the horse-god, is common, and clay images of horses are placed round a central shrine. The Gonds likewise have a Ghor Deo, or horse-god, also named Koda Pen.

With reference to the South Indian horses, striking figures, often of considerable dimensions, standing in little groups in fields on the outskirts of villages, he would indulge in a curious speculation. He recalled a story in the *Arabian Nights*, which he for the moment could not locate again, speaking of such horses, petrified during the day and coming to life in the night. He wondered whether this story had its origin in the South Indian custom.

Though not strictly relevant to the topic under discussion he would like to mention that Mr. Chintaharan Chakravarti had told him that a story regarding Urvāśī being transformed into a horse by day, resuming her own shape by night, occurs in the *Dandī-parva*, a well-known old Bengali composition. The Kinnaras have horse-faces (*turaṅga-vadana*). In the ritual literature of Bengal a number of old Bengali MSS. refer to a deity called Trailokyadeva or Trailokya Pir who rides on a golden horse with a silver saddle. A hymn attributed to Śaṅkarācārya mentions horses and horse-borne chariots among the 64 objects offered to the supreme goddess, Śakti.

The place of the horse in Indian folklore, mythology and superstition was an interesting subject of study. We lacked for India a treatment similar to that under the word Horse (Pferd), and its combinations, in the magnificent German cyclopædia of German superstition. He would however draw attention to Van Gulik's recent monograph on *Hayagrīva : the Mantrāyanic Aspect of the horse-cult in China and Japan*, Leiden, 1935.

Sir *Lewis Fermor* observed that his horse was not a god to whom offerings were made, but the offering itself.

Mr. *Mukul Dey* said :—

All Indian potters of to-day still make clay horses for the Goddess Śītālā, who rides on a donkey. People supplicate Śītālā against small-pox, cholera and other diseases. In every village one may find such horses, and in some cases elephants, lying under trees, where the villagers come to worship them periodically.

Dr. *Suniti Kumar Chatterji* said :—

The cult of the horse is an old one in India. In the *Rg-Veda* we have already *Dadhikrāvan*, a divine horse, a form of *Agni*, the fire god. Even at the present day it prevails all over India, and it forms part of the popular religion, Hindu or Musalman. The shrines of Muhammadan *Pirs* or Saints usually have crude terra-cotta horses as votive offerings, heaps of these sometimes being found near popular shrines. Actually some of these *Pirs* are known as *Ghorā-Pirs* or Horse Saints from these offerings. No one can tell why figures of horses are offered to Musalman *Pirs* : but this would seem to be merely a survival in popular Islam of an older cult replaced by it, at least outwardly. The old gods never die, or are at least very hard in dying. Probably a horse-cult was known in Pre-Aryan India, and it has continued down to our day. Images

of horses are offered also to some Hindu temples, particularly in West Bengal. In the Bankura district, figures of terra-cotta horses, and sometimes of elephants, are dedicated to the deity known as *Dharma*. This *Dharma* cult, as the late MM. Haraprasad Shastri showed, is a survival of popular Buddhism within popular Hinduism (Brahmanism). The shapes of these West Bengal horses have some resemblance to those in the Dravidian country and they are sometimes quite as big as in the south. Islam in India replaced Buddhism and Brahmanism, and in the process took over a great deal from these cults; clay horses in shrines, whatever they mean, are a survival of primitive popular religion through Buddhism-Brahmanism and Islam.

The iron horse exhibited by Sir Lewis Fermor may be or may not be connected with the horse cult. It may be questioned whether it is really pre-historic. It does not look to be a horse rampant, but it is meant to stand on its four legs. Stylistically its shape reminds me of the horse in Northern European Art—for instance in Celtic copies of Greek coins, and in Early Germanic Art. Then, again, from its shape, one may ask whether it is a cult figure, or an ornamental one, or merely a horse's bit in the shape of a horse. Similarly figures forming decorative horse gear have been found elsewhere. At any rate, the figure is remarkable from many aspects—metallurgical, religious, mythological, and ethnological, and deserves careful scrutiny by specialists.

Sir Lewis Fermor, in reply to the discussion, thanked the members present for the interest they had taken in his little exhibit. With reference to the various points raised, he wished to emphasize that the specimen had been in Calcutta for 31 years without rusting, and that no special care had been taken to prevent this. Also it was necessary to emphasize that this horse was one of a group of horses that had been offerings to a local deity. There was no chance of the specimen being merely a horse's bit as suggested by Dr. Chatterji, unless all the clay horses at the same spot could be so regarded. As regards the stance of the horse, it seemed undoubtedly to be rampant as it stood very securely upon its hind legs and tail, and was very unstable on four legs, one of which actually does not touch the ground.

2. PERCY BROWN.—*Miniature Painting of a Mughal Prince.*

This portrait, which was acquired in Kashmir some years ago, has been identified as Prince Dara Shikoh, eldest son of the Emperor Shah Jahan (1627–58). There are authentic portraits of this prince to which this miniature bears a strong resemblance. The portrait is rather larger in scale than the usual Mughal miniature as the face itself measures over 3 inches in length.

The miniature is an excellent example of the style of painting which prevailed at the Mughal Court towards the middle of the 17th century, and is most probably a contemporary portrait taken from life. It is representative of the Mughal School when it had just passed its meridian under the Emperor Jahangir (1605–27), but in spite of this it is a significant work of art. It has every proof of being a good likeness, and its outlines are drawn with that dexterity that the best artists of the time invariably possessed. There is realism in every brush form, nothing is suggested, all is clear and distinctive, even to the slight degree of shading which was beginning to appear in the art at this time.

The subject of this portrait had a tragic career. We see him as a youth in a magnificent miniature of a scene preserved in the Bodleian Library at Oxford, where his father sits in Durbar surrounded by the members of his Court, Dara Shikoh and his younger brother Shuja attended by their tutor standing in respectful attitudes before the throne. Again he bestrides a prancing horse in true cavalier style in a picture in the Indian Museum, Calcutta. Later, however, Dara became the object of his younger brother Aurangzebe's intrigues which finally ended in his death, by which undoubtedly the Mughal dynasty lost a very promising member. Dara Shikoh possessed that interest in the arts which is the hall-mark of his family, and in the India Office Library there is a very precious album of pictures collected by this prince and bearing his name. History, and in any case the art history of Hindustan, might have taken a very different course had destiny allowed Dara Shikoh to succeed his father Shah Jahan.

One point about this miniature has a special interest. Towards the upper margin, in somewhat faint lettering, there is inscribed in Hindi characters what is presumed to be the name of the artist, Hunhar. There are several examples of miniature painting attributed to this artist among the collections of this school, and he appears to have been one of the leading painters at the Court of Shah Jahan. Except for these products of his brush little else is known of this Mughal painter.

Mr. Percy Brown remarked :—

This miniature, although found in Kashmir, was clearly not a production of the artists of that State, but an example of the Mughal *kalm*, as this art was practised by the painters at the court of Delhi towards the middle of the 17th century. It is no doubt a contemporary portrait of the Prince, of whose features a small 'thumb-nail' sketch would be made from life, and the picture worked up with great care and elaboration from this original impression. It is an exquisite example of the marvellous dexterity of brush-form and line-work attained by the exponents of this school, the outline of the profile being drawn with a sure and sensitive touch, while the eyes and ears are admirably rendered. Yet with all these qualities it did not represent the art quite at its best period, there is a stiffness and a slightly stylized appearance in the miniature as a whole, indicating the first symptoms of the decline.

The subject of this portrait lived his last few years in an atmosphere of tragedy, when, relentlessly pursued by his brother Aurangzebe, he was forced to take refuge in the trackless wastes of Sind, where several of his family died of heat and thirst. Eventually he was taken prisoner and executed. There are no indications of these troubles on the face in the portrait which bears a calm and serene expression, so that the sketch was obviously taken before these events began to cloud his short life.

With reference to the album of some 40 pictures inscribed with this Prince's name, and now preserved in the India Office Library in London, these show that Dara Shikoh had an intelligent taste in art but that he was also catholic in his views, as this *muraqqa* contains besides Indian miniatures several European engravings including one depicting 'St. Catherine of Siena' bearing its own date of A.D. 1585. Something of the mantle of his great grandfather, the Emperor Akbar, seems to have

fallen on this young man and inspired him to form such a collection of pictorial art.

Mr. O. C. Gangoly enquired of Mr. Brown if he had sufficient data to establish the identity of the portrait. So far as the speaker knew there are three portraits said to represent Dara Shikoh—one in the Louvre museum, another in a German collection, and the third in the Boston museum. It would be useful to compare these portraits in order to consider the authenticity of Mr. Brown's exhibit.

Mr. Van Manen said that a happy coincidence enabled him to reply to Mr. Gangoly's question. Dr. Hermann Goetz, at present resident in the Hague, had recently published an extremely detailed and valuable article on one of the sources for Nicolaas Witsen's work on North and East Tartary. Dr. Goetz had been so kind as to present to the Society's library a reprint of this article, which had originally appeared in the Dutch *Tijdschrift voor Geschiedenis*, Volume 50, No. 3, page 241. From this article it appears that the State collection of prints in Amsterdam possesses an album containing 49 miniatures of Indian Emperors, Princes and Dignitaries. This album is traced back to the possession of Nicolaas Witsen, the famous burgomaster of Amsterdam, who after his voyage to Moscow in 1664 commenced collecting materials for his big book on Tartary. The writer adds that it is even possible that this album may have originally belonged to Rembrandt. He comes to the conclusion that the album originated between March and September, 1686. He further shows that as far as is known at present, Holland was the first country to begin collecting specimens of Indian art on a large scale. Dr. Goetz further established the fact that fully 250 years ago extensive collections of Indian miniatures had been imported into Holland direct from India. Now, during 1724–1726 François Valentyn (1666–1727) published his enormous work on *The New and Old East Indies*. In the second part of the 4th volume he deals with the lives of the Great Moghuls, profusely illustrated with steel engravings, evidently based on Indian originals. On page 255 there is found a portrait of Dara Shikoh (spelled by him as 'Dara Sjecoer'). The speaker would pass round the illustration for comparison with Mr. Brown's exhibit and it would be found that both portraits were undoubtedly identical. Valentyn began the writing of his work shortly after 1714, less than 60 years after Dara Shikoh's death. The various dates just now enumerated furnish a strong argument for the probability that the existence of a portrait, published in Holland in the year 1726 and described as that of Dara Shikoh, enables us to establish the authenticity of an identical portrait purchased a few years ago in Kashmir. Is it possible to suggest that the Kashmiri portrait (which has been identified as a portrait of Dara Shikoh) may have been derived from the old Dutch publication?

Mr. Mukul Dey observed that the inscription on the portrait giving the name of its painter was undoubtedly in a very recent hand so that it was therefore improbable that the portrait could be even remotely contemporaneous with its subject.

Mr. Van Manen replied that it is a well-known fact that Indian sellers of antiquities often write identifications, attributions or dates on pictures and manuscripts. Lateness of such an inscription is no proof whatsoever of the age of the object itself.

3. M. MAHFUZ-UL HAQ.—*A note on a rare MS. of al-Aghrad-al-Tibbiya (an encyclopædia of medical science).*

On account of the lateness of the hour this exhibit was postponed to the next meeting.

OBITUARY NOTICES.

REV. FR. H. HOSTEN, S.J.

(1873-1935.)

The relations between the two great academical institutions of Park Street, St. Xavier's College and the Royal Asiatic Society of Bengal, have been varied and intimate. For the last seventy years at least the Society has always had one or other of the Jesuit Fathers amongst its Associate Members. From 1897 to 1899, Archbishop P. Goethals, S.J., was a Vice-President of the Society. The contributions of the learned Fathers to the Society's publications have been many and important. Amongst the most prolific of such writers was the late Fr. Henri Hosten, S.J., who died in Brussels on the 16th of April, 1935, in the 63rd year of his life. Father Hosten had been an Associate Member of the R.A.S.B. for a quarter of a century, having been elected as such in December, 1910. An indefatigable worker, he contributed 36 papers to the Society's *Journal* and 2 to its *Memoirs*, besides leaving behind the MSS. of a number of papers for subsequent publication.

Father Hosten was decidedly a 'character', described by one of his colleagues as to the end of his life 'un grand enfant'. His devotion to antiquarian research knew no bounds; perhaps sometimes went beyond them. He was of a simple, friendly, guileless character, yet not without explosive matter in his make up. In polemics his whole-hearted zeal sometimes made him hit harder than he perhaps intended or really wished and never with lasting rancour. One of his own colleagues once said when about to deliver a lecture: 'Keep Father Hosten at home. I do not want him to pick holes in my lecture'. He had what the Belgians call 'een strijdbare ader', a combative vein, within him. Nevertheless, this side had practically only the effect of accentuating his winning qualities. As a result he was a much-beloved man wherever he went, be it as priest or scholar. Innumerable anecdotes are being told about him; how a high-placed lady once visited the College and was received by him as what she described 'un Jésuite en négligé'; or how he was so enthusiastic in teaching Latin that his pupils would actually come to blows over a point of Latin syntax; and in the archives of our own Society there are records of some whirlwinds raised by him in connection with his publications.

None of these things, however, could diminish the respect and affection which he inspired.

He was born at Ramscapelle in Belgium, on March 26th, 1873. He entered the Society of Jesus in September, 1891. In his youth he was suspected of being a consumptive and in 1893 came out to the East, to Kandy in Ceylon, with an expectation of only three more months of life. He took part there in the foundation of the Papal Seminary and began teaching with a dozen pupils. Instead of dying, he flourished. In 1906 he was ordained a priest in Kurseong.

In the meantime, before coming North, Father Hosten had already begun to study the dolmens, cromlechs and pottery of South India when being stationed at Shembaganur, near Kodaikanal. It was then also that he began his autodidactic studies of Portuguese. Soon after he was transferred to the Calcutta Archdiocese where he laboured for 29 years. When stationed in Kurseong he founded there together with the Fathers A. Wouters and P. Feron an Indian Academy.

Soon Father Hosten made himself thoroughly familiar with the Spanish, Portuguese and Italian of early missionary reports. The Latin and French were already there from the beginning. These documents became his passion; their study and publication his life-work. His powers of application were of a very high order and his typewriter was a singularly hard-worked instrument. His manuscripts, single-spaced, with the accents and corrections in the finest, microscopic, spidery writing, were marvels.

Father Hosten published anywhere and everywhere, wherever an opportunity was found; in newspapers, popular magazines, academic journals and as separate publications.

His most substantial publication perhaps was that of the memoirs of Monserrate concerning his mission to the court of Akbar, published in this Society's *Memoirs*. But his total output was exceptionally varied and numerous. The Goethals Library Catalogue contains 72 entries of works by his hand. We are informed that the Library of the Indian Academy at Kurseong contains 40 manuscript volumes prepared by him and containing partly unpublished MS. material, whilst some similar material is preserved in the St. Xavier's Library in Calcutta.

Father Hosten has from the very beginning been not only a digger-up, collector and editor of his documents, but always a most generous helper to others. He co-operated largely in the production of the History of the Bengal Mission by H. Josson, S.J., and in a recent volume on *The Jesuits and the great Moghul*, its author, Sir Edward Maclagan, pays a glowing tribute to Father Hosten on whose various publications the work in so far as regards information not already available in 1896, is largely based.

Father Hosten retired from Bengal to Europe in 1931 on account of ill-health. In his native Flanders, whenever his

doctors did not forbid it, he continued searching for documents and keeping up a busy correspondence with scholars.

His death came suddenly and unexpectedly.

The writer of this notice, who had many occasions to come in close contact with this loveable and dignified priest and scholar, can only voice the universal sense of loss caused by his death. In this Society his name will be long held in honour. R.I.P.

JOHAN VAN MANEN.

SYLVAIN LÉVI.

(1863-1935.)

Sylvain Lévi belonged to the giants. The *Encyclopædia Britannica* described him in 1929 as follows:—

‘French orientalist born in Paris on March 28th, 1863. Educated at the University of Paris. In 1886 he was appointed a lecturer at the school of higher studies in Paris. As special lecturer in Sanskrit he taught at the faculty of letters from 1889 to 1894 when he was appointed to a professorship at the College de France. In 1897 and 1898 he made tours of scientific research in India and Japan, and from 1921 to 1923 he travelled in India, Indo-China, Japan, Korea, Siberia and Russia. Prof. Lévi became a director at the school of higher studies and a member of numerous societies, including the Royal Asiatic Society, the Linguistic Society and the Society of Jewish Studies.’

The remaining years may be as briefly summarized as follows:—

In 1926 he left for Japan, for a third time, and there laid the foundation of a Research Institute called the *Maison Franco-Japonaise*. In 1928 he returned and visited India again, also for the third time, as well as Java and Bali. In the same year he founded the *Institut de Civilisation Indienne* in Paris, in connection with the University.

In October 1928 he was back in Paris where the remaining years of his life were spent in great literary productiveness. On the 30th of October 1935 a sudden death, without suffering or previous illness, put an end to his laborious life.

It cannot be our intention in this note to recount in detail, still less to discuss or appreciate, Lévi's scholarship. Eloquent and ample descriptions of his life-work have been given in many places. The *Journal Asiatique* for January-March, 1936, contains a detailed monograph by L. Renou on his scholarly record.

The Bulletin de la Maison Franco-Japonaise of Tokyo, for 1936, completes the data in four separate articles. His pupil P. C. Bagchi has published a bibliography of 139 titles of works from his hand in the 12th volume of *The Indian Historical Quarterly*. Elsewhere, in many places, due honour has been paid to his memory. It has been said that, however great a linguist he was, a Master of Sanskrit, Chinese and many old and modern Indian dialects, he was primarily an historian. But that is thinking of him as the scholar. Here we will speak chiefly of the human side of this Honorary Fellow (since 1920) of the Royal Asiatic Society of Bengal. In him the great scholarship never dimmed the great humanity. He was a great bookman but in no sense a bookish man. He was learned but never arid. He was a great classicist but intensely aware of the actual current of life. Of nervous activity, he was a great organizer. He held the secret of converting his many pupils into admirers and friends and of communicating some of his own zeal to them. A typical anecdote is told by Bagchi: 'His house was always open to receive Indian students, and those who have come in contact with him cannot forget the great qualities of his heart. Amongst manifold preoccupations he has often been seen, at the age of 60, running from hotel to hotel to find convenient rooms for a newly arrived Indian student.' During his stay at Shantiniketan he easily dropped into Indian ways of living, thinking and feeling, and merged into the spiritual atmosphere. The great success of his two visits to Nepal was no doubt due to this adaptability and inner affinity with the East. So it was in Japan, so elsewhere. We remember a day when in the Buddhist Vihara in Calcutta a special meeting was held in his honour. The writer of this note was one of the speakers and remarked that if there were something in the power of names it was not strange that Sylvain Lévi was at home in India. Was Lévi not the same as Brāhmaṇa, and Sylvain as Āraṇyaka? This allusion seemed to touch the distinguished guest deeply. He jumped from the platform and warmly kissed the speaker on both cheeks, a typical manifestation of his affectionate nature.

Sylvain Lévi has been a powerful ambassador and interpreter of the West to the East, and of the East to the West. He was a unifier in a discordant world. He never lost the simplicities in his learning, nor was ever his warm heart chilled by the strong cold light of his powerful reason.

It is always something great when real intellect does not obscure goodness, and when vast erudition does not dry up the waters of life.

In Sylvain Lévi the scholar and the man were both exceptional and of outstanding merit. Those who had the privilege of knowing him, will reckon it as something precious to have met him on the path of existence, to have basked in the radiations of his mind and heart. They cannot but realize that the memories

of meeting or companionship with him will remain true joys, privileges to be cherished throughout life.

JOHAN VAN MANEN.

(Partly read in the Ordinary Monthly Meeting on the 4th November, 1935.)

HENRY FAIRFIELD OSBORN.

(1857-1935.)

The sad death of Henry Fairfield Osborn, Zoologist, Palæontologist, Educationist, Author and Administrator, at the age of 78 has created a gap among the American men of Science which it would be hard to fill. President Osborn—as he was generally known in America since he became the President of the Board of Trustees of the American Museum of Natural History, New York, in 1908 after the death of President Jesup—made very valuable contributions to the sciences of Zoology, Palæontology and Biology ; a great deal of his Zoological and Palæontological work was essentially biological, in that it was carried out with a view to arriving at a better understanding of the nature, continuance and evolution of Life. In addition, his services in the cause of Education and his work as an administrator and author are so remarkable that any of these activities would have won him an outstanding place amongst the leading workers of the times.

Osborn was born on the 8th of August, 1857. He was educated in the Columbia Grammar School and Lyons Collegiate Institute of the New York City, and later graduated at Princeton. Taking up practical field work in the Museum of Geology and Archæology at Princeton after his graduation, he became the leader of the palæontological expeditions of the University to Colorado and Wyoming in 1877 and 1878. In 1878-79 he took courses in Anatomy and Histology at the College of Physicians and Surgeons in New York, and in 1879-80 went to Europe, where he studied embryology at Cambridge under Professor Francis Balfour and Comparative Anatomy in London under Professor Thomas Henry Huxley. In 1881 he was appointed as the Assistant Professor of Natural Science at Princeton, and in 1883 as the Professor of Comparative Anatomy ; this latter post he held till 1890. In 1891 he was appointed to the Da Costa chair of Biology of the Columbia University, and from 1892-95 he also served as the Dean of the Faculty of Pure Science of the University. In 1910 he retired from active teaching at Columbia,

but up to his death retained his connection with the University as the Research Professor of Zoology.

In 1900 Osborn was appointed as the Vertebrate Palaeontologist of the U.S. Geological Survey, and in 1924 he was promoted to the rank of its Senior Geologist. In 1906 he was unanimously elected as the Secretary of the Smithsonian Institution, the highest scientific post in the United States of America, but in view of his great interest in the American Museum of Natural History he declined this high honour.

In addition to being a trustee and curator of several divisions of the American Museum of Natural History, New York, he served as its Vice-President (1899-1901) and was its President from 1908 to the date of his death. During his Presidential administration he inaugurated a very efficient plan for the internal organization of the American Museum; the most important development for the instruction and recreation of the visiting non-scientific public has been the preparation and installation of attractive museum groups in replicas of their natural surroundings in almost all sections of the Museum. He was also responsible for sending numerous expeditions to collect natural history material not only in different parts of America but almost all over the world. It was his far-seeing policy that has made the American Museum of Natural History one of the biggest institutions of its kind, with its very rich study collections for research, and the beautiful and instructive exhibits in its very extensive public show galleries. His work in the cause of public education was considered of so great an importance as to be acknowledged by the award of the Roosevelt Medal of Honour, presented by President Harding in 1923.

His first scientific contribution was published at the age of 21, and since that date during the 58 years of his active life he published an enormous number of original contributions either in the form of papers and monographs or as separate volumes dealing with special subjects.

The new biological principles which he enunciated as a result of an inductive line of investigations on fossil vertebrates have not all been universally accepted, but the environmental principles of adaptive radiation, polyphyletic evolution and homogenic classification have gained wide support amongst Palaeontologists and, to some extent, among Zoologists.

President Osborn was a member of a large number of scientific academies and societies, and was also the recipient of a large number of medals and awards both in the United States and of the leading scientific societies all over the world. He was a foreign member of the Royal Society of London and was the only Zoologist to be elected as a Centenary Anniversary Fellow of the Asiatic Society of Bengal in 1934. The writer had the privilege of meeting him first in 1925 on the occasion of the Meeting of the British Association for the Advancement of Science in

Oxford and later in New York in 1930, and can never forget the impression created by his masterful personality. He was a charming man, pleasant and unassuming to talk to, and his interest in anything relating to Science and Education was all-absorbing. May his soul rest in peace !

B. PRASHAD.

(Read in the Ordinary Monthly Meeting on 2nd December, 1935.)

PROCEEDINGS OF THE MEDICAL SECTION MEETINGS, 1935.



NOVEMBER, 1935.

A meeting of the Medical Section of the Asiatic Society of Bengal was held on Monday, the 18th November, 1935, at 6 P.M.

PRESENT.

LT.-COL. R. KNOWLES, C.I.E., B.A., M.R.C.S., L.R.C.P.,
I.M.S., F.A.S.B., Vice-President, in the Chair.

Members :

Hora, Dr. S. L.
Mallya, Major B. G.

Pasricha, Capt. C. L.
White, Dr. R. Senior

(There were five visitors present.)

The minutes of the last meeting were read and confirmed.

The following papers were read :—

1. S. L. HORA.—*Recent Indian cases of live fishes impacted in the food and air passages of man.*

In a series of three articles, Dr. E. W. Gudger has brought together 38 recorded cases of live fishes in the human food and air passages. These records date from 1567 to 1933 and show that the phenomenon occurred in several countries. Of the 38 cases discussed by Gudger, 12 are known to have occurred in India and Burma. Through the kind help of Major-General D. P. Goil, 19 more cases have been collected from all over India and Burma—1 from the Bombay Presidency, 6 from the Madras Presidency, 3 from Bihar and Orissa, 1 from Bengal, 5 from Assam, and 3 from Burma. Of the 31 cases, 17 were due to *Koi* (*Anabas testudineus*), 4 to *Kholisha* (*Colisa fasciata*), and 1 each to *Mastacembelus*, *Nandus*, and *Cynoglossus*. The types of fish responsible for the remaining 7 accidents are not known. As regards the location of the impacted fishes, in all Indian cases discussed by Gudger the fish were found in the pharynx. Of the 19 cases now recorded, in 13 cases the fish was lodged in the food passage and in 6 cases in the air passage. The reports regarding the nature of treatment and the condition of patient are given, while the surgical aspect of these cases will be discussed by Lt.-Col. B. G. Mallya. The various types of fish enumerated above will be exhibited.

In explaining his paper Dr. Hora remarked that the accounts of two accidents of impaction of live fishes in the throat of man that appeared in the *Statesman* during 1927 and 1934 attracted his attention and with a view to ascertain the frequency of such occurrences and to know the types of fishes responsible for such accidents he had a circular sent to all government medical officers through the courtesy of Major-General D. P. Goil. The reports received are of considerable interest as they show that the accidents are restricted mainly to Madras, Orissa, Bengal, Assam, and Burma where *Koi* (*Anabas*) is found in considerable quantities and where people habitually use fish for food. No case has been reported from the North-West Frontier Province, the Punjab, the Central Provinces, and the United Provinces, and there is only one case reported from Bombay in which the fish concerned was a *Mastacembelus*. The accounts of certain cases were read out and attention was directed to the form of body and the direction of spines in the various types of fishes found in the human food and air passages.

2. B. G. MALLYA.—*Surgical aspect of live fishes impacted in the human food and air passages.*

The treatment in cases of this type is that of a foreign body lodged in the food and air passages. These cases are surgical emergencies and hardly any time is available to prepare for an operation on an elaborate scale, let alone sending for a surgeon or a specialist in Ear, Nose, and Throat work.

The point that requires immediate attention is whether there is respiratory embarrassment or not. In the majority of such cases there is extreme urgency as revealed by the heavy mortality in the cases collected with such care and labour by Dr. S. L. Hora. While confronted with a case of extreme urgency of this type, it is the opinion of the author that the immediate treatment should consist in doing a tracheotomy as a life saving measure.

In further explaining his remarks Lt.-Col. Mallya stated that the treatment in cases of this type is that of a foreign body lodged in the food and air passages. Such cases are brought for treatment to the nearest dispensary by day or night and may be rightly classed as surgical emergencies. Foreign bodies in the pharynx and air passages cause suffocation and require immediate treatment. The first thing to do is to inspect the throat with a good light and explore with the finger. If the head of the fish is seen or felt it may be caught with a pair of forceps and pulled out. Such cases are however rare.

One such case came under my observation at the Chittagong General Hospital where a girl aged about nine years was brought with a fish stuck in her naso-pharynx. This fish had got in through the nose and inspection of the throat revealed its head which was caught with a pair of long forceps and the fish was pulled out. There was slight bleeding. This girl made an uneventful recovery as an out-door case. There was no respiratory embarrassment in this case.

In the majority of cases there is extreme urgency as revealed by the heavy mortality in the cases collected with such care and labour by Dr. S. L. Hora. The person is suffocated by the foreign body and signs of asphyxia are present. As death occurs in a few moments, there is hardly any time to prepare for an operation on an elaborate scale, let alone sending for a surgeon or a specialist in Ear, Nose, and Throat work.

In cases of extreme urgency of this type immediate treatment consists in doing a tracheotomy as a life saving measure and if no instruments are

available a pocket knife may be used for giving the patient air which he needs most at this moment. Tracheotomy is an urgent operation and every medical man is expected to do this operation with any instruments at hand at any time.

Dr. *Nag Choudhury* stated that at the request of Lt.-Col. Mallya, he had studied all the cases reported by Dr. Gudger and those recently collected by Dr. Hora. He observed that the tenacity of life of the fishes concerned in these accidents, especially that of *Koi*, makes the task of handling the fish very difficult, for, as long as the fish is alive, it can raise its spines and can make forward progress in the food or air passage. In the treatment of such cases, there are four main considerations: (i) condition of the patient, (ii) part of the passage obstructed—pharynx, oesophagus, larynx, trachea, lung, etc., (iii) the type of fish impacted, and (iv) appliances to be used. For the purposes of treatment such cases can be divided into six main groups according to the part of the passage obstructed: (i) Oropharynx, (ii) Hypo-pharynx, (iii) Oesophagus; upper, middle, and lower parts, (iv) Larynx, (v) Trachea, and (vi) Lungs or Bronchi.

According to the condition of the patient a stimulant must be given to prevent shock and reflex spasms of pharyngeal and laryngeal muscles. In the cases of respiratory embarrassment tracheotomy or laryngotomy should be performed at once. After these life saving measures have been taken the actual state of affairs should be ascertained by passing the oesophagoscope and laryngoscope. If the head of the fish can be located within easy reach it should be held by a long pair of forceps and the fish pulled out. If the fish is deeply impacted then with the help of an endoscope the gill covers and fin spines should be cut with long cutting forceps. The fish should then be pulled out and the cut portions should be removed afterwards separately. In some cases it may be necessary to expose the pharynx by lateral pharyngotomy to pull out the fish with the head first through the wound. When the fish happens to be in the middle or lower parts of the oesophagus, then it should be pushed down into the stomach where it may be allowed to remain for normal digestion or taken out by gastrotomy, as may appear most suitable. In the case of the larynx, trachea, and bronchi a low tracheotomy is essential and all effort should be made to restore respiration as early as possible. The fish should be then pulled out through the wound with the help of the bronchoscopy tube bit by bit, may be in two or three sittings.

In summing up the author referred to the bad custom of biting off the heads of these fishes which sometimes leads to calamitous results and deprecated the use of the probang in such cases. He advocated the use of X-rays, where available, for the precise location of the fish before operation.

Lt.-Col. *R. Knowles* thanked the three authors on behalf of the Society for the interesting and valuable papers they had communicated to its Medical Section. He referred to an old case of thirty-three years ago where a cat was concerned. A long fish bone had stuck in the throat of the cat and it was possible to remove it with the help of a probang. He enquired from Dr. Hora the percentage of mortality in the cases recently collected by him.

Capt. *C. L. Pasricha* enquired whether it was not possible to remove an impacted fish from the throat bit by bit by cutting off portions of it. In the case of air-breathing fishes, such as *Koi*, he suggested that an injection should be given to kill them at once.

In reply to Col. Knowles Dr. Hora stated that there were twelve deaths out of the nineteen cases collected by him recently.

In reply to Capt. Pasricha Dr. Hora stated that Dr. Francis Day, a Medical Officer and the greatest student of Indian Fishes, suggested the removal of the fish bit by bit after attending to the respiratory embarrassment first. In his opinion the portions of the fish which could not be

easily removed should be allowed to stay *in situ* till they decay and fall down. The smell is immaterial in such cases where it is a question of life and death.

Capt. Pasricha suggested that with the modern appliances it should be possible to suck out the inner mass of the fish after removal of such of its portion which could be easily handled.



DECEMBER, 1935.

A meeting of the Medical Section of the Asiatic Society of Bengal was held on Tuesday, the 17th December, 1935, at 6 P.M.

PRESENT.

SIR LEWIS FERMOR, KT., O.B.E., A.R.S.M., D.Sc. (London), F.G.S., M.Inst.M.M., F.R.S., F.A.S.B., President, in the Chair.

Members :

Basu, Mr. N. M.	Chopra, Lt.-Col. R. N.
Brahmachari, Sir U. N.	Lal, Dr. R. B.
	Mukherjee, Dr. J. N.

(There were twelve visitors present.)

The minutes of the last meeting were read and confirmed.

The following paper was read :—

LT.-COL. R. N. CHOPRA and A. C. ROY.—*Some Biochemical Characteristics of Snake Venoms.*

Some biochemical characteristics of snake venoms were investigated. Cobra and Russel's viper venoms were selected for this study because though they have some pharmacological properties in common, they differ strikingly in other respects. Thus, the neurotoxic element is preponderant in the cobra venom, while hæmorrhagic or anticoagulant property is more or less peculiar to the venom of the viper, the nervous centres being not much affected. The results of experiments carried out by these workers suggest that by the process of filtration through Seitz filter either the hæmolytic element has been altogether eliminated or it has been inactivated in such a manner that it is incapable of being reactivated by lecithin. The former hypothesis appears to be the more probable one, as Houssay (1921) found that the hæmolytic substance of snake venom is absorbed by animal charcoal, the residual venom solution being non-hæmolytic. They believe that with Seitz filter also a similar process of adsorption is responsible for the loss of hæmolytic property.

Experiments are in progress with a view to ascertain the nature of this hæmolytic principle and also how far this process of filtration affects the other properties of the venom solutions.

Colonel *Chopra* gave the results of the pharmacological action of filtered and unfiltered venoms and pointed out that there was no doubt that the action on the blood pressure and respiration of the unfiltered venom was different from that of the filtered venom.

Dr. *R. B. Lal* suggested that attempts might be made to deadsorb the lytic principles retained in the Seitz filter and thus obtain it in a pure condition. For this purpose filtering materials such as kaolin might be used, and care should be taken to prevent oxidation of the active principle.

Dr. *M. N. Bose* remarked that it is a well-known fact that cobra venom contains a lecithinase, and that the constitution of lecithin and kaephalin has been partly worked out with the help of the cobra venom.

Dr. *J. S. Chowhan* thought that filtering the venom through Seitz filter has the advantage of making it sterile, without the help of chemicals and at the same time of removing some of the toxic principles. He cited sixteen cases where cobra venom was used for cancer and different types of neuralgia.

INDEX

YEAR-BOOK ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME III, 1937

A

- Abu Nukhailah, 180.
 Abyssinia, map of, 143.
 Accommodation, 32.
 Agencies, 38.
 al Aghrād-al-Tibbiya, 190.
 Anderson, J. Conception of power
 in the social organism, 8.
 Annandale Memorial Medal, 31
 —recipients of, 126.
 Annual Address, 1936-37, 8.
 „ Meeting, 1937, proceedings
 of, 5.
 „ Report, 1936, 25
 Anthropology, 39.
 Arabic and Persian Manuscripts,
 Search and Catalogue, 41
 Artistic and Historical Possessions,
 32.
 Associate Members, 26
 —list of, 119.
 Azād Bilgrāmi, 173

B

- Bauerji, A. Buddha image from
 Kurkihar, 180.
 Banerji-Sastri, A. Nagas in the 3rd
 and 4th centuries, 172.
 Baptist Mission Press, 38
 Barclay Memorial Medal, 31
 —recipients of, 126.
 Barwell, N. Influence of oriental
 motifs upon book-bindings in
 Europe, 169.
 Bhārata Battle, date of, 157
 Bhaskara-varman, Nidhanpur grant
 of, location of land granted
 by, 175.
 Bhattacharyya, P. Location of land
 granted by the Nidhanpur
 grant of Bhaskara-varman.
 175.
 Bibliotheca Indica, 40.
 Blood parasites of Indian birds.
 172.

- Book-bindings in Europe, influence
 of oriental motifs upon, 169.
 Brahmachari, U. N. Obituary of
 R. N. Mookerjee, 183.
 Brass images from the Chittagong
 district, 145.
 Brass utensil pierced by hail-stone.
 175.
 Bronchiectasis, 191.
 Brown, P. Metal figurine of a
 daucer, 161.
 Buddha image from Kurkihar, 180.

C

- Calcutta Indian Science Congress
 Prize, 32.
 Catalogue of Sanskrit Manuscripts,
 41.
 Cephalopods, evolution of, 22.
 Chakravarti, C. H. Illustrated old
 Indian manuscripts and
 manuscript covers, 20
 —Kaulāvalīnirṇaya, 142
 —Little known works of two
 celebrated Tantric writers,
 181.
 —Manuscripts on the cult of
 Kubjikā, 158.
 Chakravarti, S. N. Sculptured
 intel of Gupta date from
 Sarnath, 180.
 Chanda, R. P. Brass images from
 the Chittagong district, 145
 Chatterji, S. K. Hindu painting on
 cloth from the island of Bali,
 153.
 Chatterji, S. K. Obituary of P. C.
 Nahar, 184.
 Chatterji S. K. Set of old Oriya
 playing cards, 163.
 Chitellum and sexual maturity in
 the Megascolecinae, 181.
 Committees of Council, 28.
 Communications, 39.
 Conception of power in the social
 organism, 8.

Condolences, 27
 Congratulations, 30
 Council, 27
 „ Proceedings, 1936 abstract
 of, 71
 Countess Amherst collection of
 Assamese coins 128

D

Deputations, 30
 Dinajpur, tour in the district of
 198
 Dronaparvan of the Mahabharata
 palm leaf manuscript of, 134

E

Elliott Gold Medal and Cash re-
 cipients of, 125
 „ Prize for Scientific Re-
 search 31
 Exchange of Publications 38
 Exhibits 20 38

F

Ferro alloys, 21
 Finance 33
 „ Committee 28
 Fossils from India 23

G

Gates, G E and Kyaw M H
 Chitellum and sexual maturity
 in the Megascloecinae 181
 General Lectures, 39
 Guha, B S Wooden effigies of the
 Red Kafirs of the Hindukush
 Mountains 20

H

Haq M M Manuscript of an
 Urdu romantic poem 182
 —Rare manuscript of al Aghrad
 al Tibbiya, 130
 Harley, A H Abu Nukhaalah 180
 Hemoparasites, list of, 172
 Hindu painting on cloth from the
 island of Bali, 153
 Honorary Fellows, 26
 —list of 121
 Honours, 30
 Hora, S L Manuscript drawings
 of Indian fish and other
 animals 189.

Hosain, M H Islamic Apocrypha
 149
 — Kharidat al Qasr, 147, 150
 — Obituary of C S Hurgronje,
 185
 — Persian stencilled wall-hanging
 picture said to represent
 Umar Khayyām, 159
 Hurgronje, C S, obituary of, 185
 Husain, S W Azād Bilgrāmī,
 173

I

Illustrated old Indian manuscripts
 and manuscript covers, 20
 Indian birds, blood parasites of, 172
 Indian fish and other animals,
 manuscript drawings of 133
 Indian Museum, 29
 Indian Science Congress 29
 Indian Science Congress Medal
 Calcutta, recipient of 126
 Institutional Members 26
 list of 120
 Iron implement, prehistoric, from
 Malacca 146
 Islamic Apocrypha 149

J

Joy Gobind Law Memorial Medal
 31
 —recipients of, 126

K

Kibbi Naga cloths 141
 Kamala Lectureship 30
 Kaulavalmiraya 142
 Kharidat al Qasr, 147, 150
 Knowles, R, obituary of, 187
 Krishnan, K V Mechanism of
 hemolysis in malarial hemo-
 globinuria of monkeys 193
 Kubjikā, cult of, manuscripts on
 158
 Kyaw M H See Gates G E
 and Kyaw M H

L

Library, 33
 Life Members chronological list of,
 118

M

- Majumdar, N. G. Terracotta toy cart in the Indian Museum 167.
- Malarial hæmoglobinuria, mechanism of hæmolysis in, of monkeys, 193.
- Malpaharias, social institutions of 173.
- Manen, J. v. Map of Abyssinia. 143.
- Palm-leaf manuscript of the Dronaparvan of the Mahabharata, 134.
- Pre-historic iron implement from Malacca, 146.
- Recent descriptions of Minya Gongkar, 155.
- Medical Section, 40.
- Meetings, 1936, proceedings of, 191.
- Meetings, 38.
- Megascolecinæ, clitellum and sexual maturity in, 181.
- Mello, I. F. de. Blood parasites of the Indian birds, 172.
- Members, loss of, 1936, 123.
- Membership Statistics, 1907-1936 43.
- Metal figurine of a dancer, 161.
- Micro-structures of fossils, 23.
- Minya Gongkar, descriptions of, 155.
- Mookerjee, R. N., obituary of, 163.
- Mukherjee, J. N. Brass utensil pierced by hail-stone, 175.

N

- Nagas in the 3rd and 4th centuries 172.
- Nahar, P. C., obituary of, 184.
- Napier, L. E. Obituary of R Knowles, 187.
- National Institute of Sciences of India, 30.
- Natural History : Biology, 39
- Physical Science, 39
- Nidhanpur grant of Bhaskaravarman, location of land granted by, 175.
- Numismatics, 42.

O

- Obituary, 27.
- „ Notices, 183.
- Office, 28.
- „ Bearers, 27.

- Officers and Members of Council, 1936, 93.
- 1937, 19, 94.
- Ordinary Members, 25.
- chronological list of, 113.
- list of, 95.
- Ordinary Fellows, 26.
- list of, 120.
- Oriya playing cards, 163.

P

- Painted pottery from Nal, Baluchistan, 20.
- Paul Johannes Brühl Memorial Medal, 32.
- recipients of, 126.
- Persian stencilled wall-hanging picture said to represent Umar Khayyām, 159.
- Philology, 39.
- Pramatha Nath Bose Memorial Medal, 32.
- Prashad, B. Kabu Naga cloths, 141.
- Rufous-necked hornbill, 141
- Presentations, Donations, and Legacies, 32.
- Publications, 37.
- „ list of, 1936, 44.
- Putrikāputra, 145.

R

- Receipts and Disbursements, 45.
- Royal Title, 25.
- Rufous-necked hornbill, 141.
- Rules and Regulations, 29.

S

- Sanskrit Manuscripts, 41.
- Saraswati, S. K. Tour in the district of Dinajpur, 138.
- Sarkar, S. S. Social institutions of the Malpaharias, 173.
- Sculptured lintel of Gupta date from Sarnath, 180.
- Sen Gupta, N C Putrikāputra. 145.
- Sen Gupta, P. C. Date of the Bhārata Battle, 157.
- Sir Wilham Jones Memorial Medal, 31.
- recipients of, 126.
- Sir William Jones translating Shakuntala, panel representing, 132.

Skulls of fossil man, 23.
 Social Functions, 31.
 Social organism, conception of
 power in, 8.
 Society's Premises and Property,
 32.
 Special Anniversary Honorary
 Members, 26.
 —list of, 119.
 Stapleton, H. E. Countess Amherst
 collection of Assamese coins,
 128.

T

Tagore, P. C. Panel representing
 Sir W. Jones translating
 Shakuntala, 132

Tantric writers, little known works
 of, 181.
 Terracotta toy-cart in the Indian
 Museum, 167.

U

Ukil, A. C. Bronchiectasis, 191.
 Urdu romantic poem, manuscript of
 an, 182.

V

Visits, 30.

W

Wooden effigies of the Red Kaffirs of
 the Hindukush Mountains.
 20.

Date of Publication July, 1939.

Pp. 1-196.

(Complete.)

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME III

1937

Year-Book, Royal Asiatic Society of Bengal, -1936.

CONTENTS.

	<i>Page</i>
1. Proceedings, Annual Meeting. 1937	5
Annual Address, 1936-37	8
Officers and Members of Council. 1937	19
Exhibition, Annual Meeting	20
Annual Report, 1936	25
Membership Statistics, 1907-1936	43
List of Publications, 1936	44
Abstract Statement of Receipts and Disbursements, 1936	45
Abstract Proceedings Council, 1936	71
2. List of Patrons, Officers, Council Members, etc., 1936	91
Patrons	92
Officers and Members of Council, 1936	93
Officers and Members of Council, 1937	94
Ordinary Members, alphabetically	95
Ordinary Members, chronologically	113
Life Members, chronologically	118
Special Anniversary Honorary Members	119
Associate Members	119
Institutional Members	120
Ordinary Fellows	120
Honorary Fellows	121
Changes in Membership	123
Loss of Members, 1936	123
Ellhott Gold Medal, recipients	125
Barclay Memorial Medal, recipients	125
Sir William Jones Memorial Medal, recipients	126
Annandale Memorial Medal, recipients	126
Joy Gobind Law Memorial Medal, recipients	126
Paul Johannes Brühl Memorial Medal, recipients	126
Indian Science Congress Medal, Calcutta, recipient	126
3. Proceedings, Ordinary Monthly Meetings, 1936	127
Obituary Notices	183
4. Proceedings, Medical Section Meetings, 1936	191

PROCEEDINGS OF THE ANNUAL MEETING, 1937.

FEBRUARY.

The Annual Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 15th February, 1937, at 5-30 p.m.

PRESENT.

HIS EXCELLENCY THE RIGHT HONOURABLE SIR JOHN ANDERSON, P.C., G.C.B., G.C.I.E., GOVERNOR OF BENGAL, Patron and President, in the Chair.

Members :

Bagchi, Dr. K. N.
Bivar, Mr. H. G. S.
Bose, Mr. M. M.
Bothra, Mr. S. K.
Brocke, Dr. A. G.
Brown, Mr. Percy
Brahmachari, Dr. P.
Brahmachary, Rai Bahadur S. C.
Calder, Mr. C. C.
Chakravarti, Prof. Chintaharan
Chanda, Rai Bahadur R.
Chatterjee, Mr. Patit Paban
De, Mr. K. C.
Dunn, Mr. J. A.
Ezra, Sir David
Flury, Mr. E. C.
Ghosal, Dr. U. N.
Ghose, Mr. Sushil Chandra
Ghose, Mr. T. P.
Haq, Prof. M. Mahfuz-ul
Heron, Dr. A. M.
Hora, Dr. S. L.
Hobbs, Mr. H.
Hosain, Dr. M. H.
Jack, Hon. Mr. Justice R. E.

Jain, Mr. C. L.
Jenkins, Dr. W. A.
Ledrus, Rev. M.
Mahtab, Maharajadhiraj Bdr. B. C.
Mahtab, Maharaj-Kumar U. C.
Manen, Mr. Johan van
Martin, Capt. M. F. C.
Mitter, Hon'ble Sir B. L.
Mitter, Mr. S. C.
Modi, Mr. J. J.
Mookerjee, Mr. B. G.
Mukherjee, Dr. J. N.
Mullick, Mr. M. L.
Nandy, Maharaja S. C.
Olpadvala, Mr. E. S.
Rahman, Mr. S. K.
Ray, Dr. H. C.
Rossetti, Mr. F.
Roy, Rai Bahadur Sarat Chandra
Selzam, Dr. E. von
Sen, Mr. J. M.
Sen, Mr. D. M.
Wadia, Mr. D. N.
White, Mr. J. C.
Wilson, Dr. H. E. C.

and others.

Vinitors :

Aiman, Mr. J. S.
Bhatia, Dr. B. L.
Bingham, Mr. George E.
Bose, Mr. H. K.
Bose, Mr. S. M.
Chakravarti, Mr. P.
Cholaapke, Mr. K.
Colson, Mr. L. H.
Das Gupta, Mr. K. C.
De, Mr. H. K.
De, Mrs. K. C.
Deb, Raja Kshitindra
Ellis, Mr. Norman A.

Flury, Mrs. E. C.
Ghatak, Mr. N.
Ghose, Mr. H. N.
Ghosh, Dr. J.
Gootz, Dr. Hermann
Goetz, Mrs.
Hoskins, Capt. G. H.
Knight, Rev. P.
Knight, Mrs.
Macfarlane, Mr. J. B.
Macfarlane, Mrs.
Mahalanobis, Mr. S. C.
Majumdar Mr. S. K.

Maltley, Mr. G. A.
Mandal, Miss Rahel
Mitter, Mr. N. C.
Modi, Miss Khorsed
Modi, Miss Mehera
Modi, Mrs. Rhoda
Neste, Rev. J. van
Pinnell, Mr. L. G.
Podenwils, Count
Pringle, Mr. R. J.
Rossetti, Mrs.
Sahni, Dr. M. R.
Sahni, Mrs.

Sarkar, Sir Jadunath
Scallan, Frank C.
Scallan, Mrs.
Sen, Lt.-Col. J. L.
Sen, Mrs.
Sharafuddin, Mrs. S.
Sinha, Mr. R. K.
Touseh, Mr. D.
Tuxen, Dr. Paul
Verstraten, Rev. X.
Wyer, Mr. A. F. van de
Wyer, Mrs.

and others.

The General Secretary and the Honorary Treasurer received the President, His Excellency the Governor of Bengal, at the entrance of the Society's building.

The retiring Council assembled at the head of the staircase to receive His Excellency and were presented to him.

Then the President for 1936 declared the Annual Meeting open and said :—

'LADIES AND GENTLEMEN,

Voting papers for the election of the new Council as well as voting papers for the election of Ordinary Fellows will be distributed to all the Ordinary Members present.

I request the Ordinary Members present to deliver their votes in the collection box which will be sent round to them.'

After the distribution of the voting papers the President said :—

'LADIES AND GENTLEMEN,

Have all votes been delivered? If yes, I call upon Messrs. H. Hobbs and Percy Brown to act as scrutinizers.

I now call upon the General Secretary to present the Annual report for 1936.' (See page 25.)

After the presentation of the Annual Report by the General Secretary, the retiring President delivered his Annual Address. (See page 8.)

After the reading of the Annual Address, the General Secretary transmitted to the President the results of the Council election.

The President while announcing the results of the Council election said :—

'LADIES AND GENTLEMEN,

I now announce the result of the Council vote. On the report of the scrutinizers, I have the pleasure to declare all the candidates for the next year set forth in the Ballot paper duly elected.' (See page 19.)

The President briefly thanked the Society for his re-election.

Then the President for 1937 made the following announcements :—

'I have now great pleasure in announcing that, having heard the report of the scrutineers, I declare the following Ordinary Members:—

1. Dr. K. N. Bahl,
2. Rao Bahadur K. N. Dikshit,
3. Dr. N. N. Law,
4. Dr. J. N. Mukherjee,

duly elected Ordinary Fellows of the Royal Asiatic Society of Bengal.'

'I have now to announce that no papers have been received in competition for the Elliott Prize for Scientific Research for the year 1936 which was for Mathematics.

The prize for 1937 will be for work in Chemistry regarding which a detailed announcement has been published in the *Calcutta Gazette* and the *Bihar and Orissa Gazette*.'

'My next announcement regards the Annandale Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the study of Anthropology in Asia.

This year the medal is awarded to Dr. John Henry Hutton, C.I.E., I.C.S., lately Deputy Commissioner of Assam, and the late Census Commissioner of India, for his long-sustained and distinguished labours in the field of Anthropological research.'

After these announcements, Sir David Ezra, Senior Vice-President, moved the following hearty vote of thanks to His Excellency:—

'The proceedings have come to an end and now I would like to propose a hearty vote of thanks to His Excellency in the triple function of Governor, Patron of our Society and its President. You all will agree that we have rarely listened to so thoughtful and suggestive an address at our Annual Meetings, as we did this evening. It is not for me to detail all the high qualities which make us feel proud of our President and cherish affectionate feelings for His Excellency. Be it sufficient that we thank His Excellency, that we express our admiration and gratitude to His Excellency. Godspeed on his further journey through life.

Ladies and Gentlemen, three cheers for His Excellency.'

The President made the following final announcement:—

'In declaring the Annual Meeting dissolved, I now invite the Members and visitors to inspect the exhibits shown at the other end of the hall.'

The General Secretary conducted the President for examination of the collection of exhibits (see page 20) and then accompanied him to the entrance on his departure.

ANNUAL ADDRESS, 1936-37.

A STUDY OF THE CONCEPTION OF POWER IN THE SOCIAL ORGANISM.

I. INTRODUCTION.

Before I proceed to the subject on which I propose to address you this evening may I say how sensible I am of the honour you have done me by electing me to be your President. I am happy moreover that in this year of its annals the Society has by permission of His Imperial Majesty the King-Emperor become the Royal Asiatic Society of Bengal. This title is a recognition that the Society has earned for itself a worthy place among the learned societies of the Empire.

I have to record the loss by death of two outstanding members, Sir Rajendra Nath Mookherjee and Colonel Knowles. In Sir Rajendra Nath we have lost a personality whose steadfastness of principle, keenness and balance of intellect, and record of successful endeavour will long stand as an example to his countrymen, and I personally have like many of you lost a valued friend. He was a member of over thirty years' standing our President in 1924 and 1925 and an Honorary Fellow since 1929.

Colonel Knowles, a member since 1920 and a Fellow since 1927, was for many years a tireless and enthusiastic Medical Secretary of this Society, a man of great industry and deep learning and of a most winning disposition. In recognition of his services to tropical medicine I had the pleasure, rather more than a year ago, of investing him with the Insignia of a Companion of the Order of the Indian Empire and was struck then by the precarious state of his health. He refused to give up and died, as no doubt he wished, in harness.

During this year our General Secretary, Mr. Van Manen, who had not had leave for nearly nine years, was granted six months' leave for medical reasons. We are delighted to see him back with us reduced in figure but restored in health and as exuberant as ever in learning and good humour.

Among gifts to the Society worthy of special mention I have to record an excellent portrait in oils painted by Atul Bose of the late Sir C. C. Ghosh, President of the Society in 1932 and 1933 and a member of the Council for several years. It was presented by his brother Mr. D. C. Ghosh.

We have also received as a permanent loan a collection of 12,000 Sanskrit Manuscripts made over by the Government of India.

II. A STUDY OF THE CONCEPTION OF POWER IN THE SOCIAL ORGANISM.¹

The choice of the subject on which I propose to address you this evening requires some comment. Before being concerned with the art of Government I was for some time a student of science. The preoccupations of later years have left me no leisure to pursue those earlier studies in detail but perhaps as a result I have been led into speculations that would not have occurred to me had I myself developed on other lines.

I propose to suggest under this heading—‘A Study of the Conception of Power in the Social Organism’ a few reflections which attempt to bring the conclusions of the biologist into relation with the conclusions—still inchoate—of the student of the social and political organization of mankind.

Necessarily with the very limited leisure at my disposal, I must confine my attempt to suggesting fields of enquiry rather than putting forward conclusions: and should any proposition that I seem to suggest appear untenable let me take refuge in the quotation that² ‘a false theory that can be compared with facts may be more useful at a given stage of development than a true one which is beyond the comprehension of the time’.

Power is a concept common to biological, philosophical and political studies. In the biological sphere power is a characteristic of every living thing that is capable of influencing some other thing: in some form or other it is an essential concomitant of life: in the sphere of philosophy the study of power is the essence of the subject. What is the nature of this thing that impinging from outside upon the bodies and minds of men can change their form and their development? What is its source—how does it behave—how should men comport themselves towards it? The study of politics is concerned with the basis, the nature, the obligations and the purposes of authority, which is but another name for power in the hands of the body politic.

But my theme is the attitude of men towards power rather than power itself: what have men conceived its nature to be? Is there traceable in those various conceptions any development comparable to the development in the physical organism that is known to the biologist as evolution?

If there is any such development is it progressive—does it point to an ultimate conclusion—can we compare the attitude towards power or authority of different men at different times and say that this or that attitude is an index of a higher develop-

¹ In the text the term ‘Social Organism’ is used as including both social and political developments unless the contrary is made clear in the context.

² *Encyclopædia Britannica*, 14th Edn., Vol. 20, p. 116.

ment in the social organism than some other attitude? If so, can we trace anything like an ordered evolution in the social and political development of mankind and can we forecast its direction?

I do not presume to answer these questions but if I should in this brief address provoke thought or stimulate research by others equipped by leisure and talents for the task, I shall make no apology for having failed to contribute a more technical thesis to the records of this Society.

The history of man may be described in one aspect as an endeavour first to adjust himself to his environment and later to control that environment itself: by his success in adjustment—by a process of submission to the apparently inevitable—he has survived: by the development of reason he has been emboldened to believe that not content with submission to environment he may aspire to control the forces and conditions that surround him and through them to control his own evolution. Comparably perhaps with this change in outlook, the attitude of man towards natural forces and social authority has also changed.

Let us cull a few specimens. Browning in his poem 'Caliban upon Setebos' gives us a picture of a primitive man's conception of power—an imaginative picture perhaps but not for that reason necessarily at variance with inferences drawn from scientific enquiry.

Caliban the half-man, lying at his ease on a fine afternoon, speculates on Setebos his god—invests him with his own characteristics—finds him powerful and capricious—why not '—is capricious himself for that matter. Somewhere above Setebos, he thinks, there may be something remote and incomprehensible that he can only call 'The Quiet'—but that is no concern of his: Setebos is the one that matters to him. And when suddenly a fierce tropical storm breaks in upon his meditations Caliban curses himself for daring to speculate upon his god and grovels in terror and penance before the wrath of Setebos.

We thought perhaps we had travelled a long way from that conception of power but it only needed the capricious insecurity of a world war to bring it back. A modern American novelist¹ writing shortly after the war compares the race of mankind to a swarm of ants trying to escape from a log burning on his camp fire. 'I remember thinking at the time' he writes 'that it was the end of the world and a splendid chance to be a Messiah and lift the log off the fire.....But I did not do anything but throw a tin cup a water on the log so that I would have the cup empty to put whisky in.....I think the cup of water on the burning log only steamed the ants'. The old

¹ 'A Farewell to Arms.' Ernest Hemingway, Ch. XLI.

conception of power is there though the grovelling and the terror has yielded place to grim endurance: except for that we are back at the beginning of the circle. But perhaps this conception of the nature of power is not the whole truth.

From Caliban to magic—to spells, and to the ‘mantra’ in its primitive conception seems but a natural process. Man is still weak in the physical forces he can bring to bear on nature, weak also except in the strength of his own arm in the forces he can bring to bear on his fellow men. But he has begun to perceive a sequence in things, and if one thing can follow another or be caused by another, why should he not hit on the means of causing things far beyond the limit of his own strength?

Power itself becomes an abstract conception. An interesting illustration of this conception is quoted in a book by Dr. G. van der Leeuw¹ from an account written in 1899 by Codrington, an English missionary, of the Melanesians. ‘He drew attention to a remarkable conception of that people which he found indicated as “Mana”’. He describes it as a force, not physical, but also not spiritual in one sense—in a certain sense it is “supernatural”. It makes a thing—a man—an animal into what they are.’ I cannot help thinking of the Platonic ‘Idea’ as an interesting gloss—but to return to *Mana*. ‘If anything is great or very powerful, or dangerous, then the presence of much *Mana* is indicated. The whole of the Melanesian religion consists in the obtaining of this *Mana* for oneself, or in contriving that it works for one’s own good.’ That last observation could be applied to much political theory and practice to-day: but let me continue. ‘This force may best be compared to an electric current. Something may be charged with it, and then its force develops into a beneficent or dangerous direction. One can do much with it but has also to be very careful with it.’ I am tempted to compare an ancient and very true Chinese proverb which says—‘Don’t ride on a tiger—you can’t dismount at will’. In other words ‘Don’t catch a wolf by the ears’.

To master and employ this mysterious quality instead of dreading and evading it is the beginning of magic: it is also the beginning² of conscious human development. To understand it and to know the ends for which it should be used is the purpose of philosophy, politics and morality.

Magic is power only so long as it works: but in so far as the performer can induce others to believe that it will work, magic still retains its potency over the human mind. ³‘The universe is under the power of the gods—the gods are under the power

¹ Introduction to the History of Religion—Van der Leeuw, Haarlem, 1924.

² Dictionary of Philosophy and Psychology, Vol. II, pp. 35-36.

³ Encyclopædia of Religion and Ethics, Vol. 3, p. 441.

of mantrams: the mantrams are under the power of the Brahmins: therefore the Brahmins are our gods.' This is a quotation that may sound strange to modern political thinkers, but is it so far removed from the ideas of those who in the political sphere pin their faith to doctrines not founded upon experiment but formulated *a priori* for acceptance as a creed? Looking at large portions of the world to-day can it be denied that magic spells long discredited by experiment in the sphere of the natural sciences still retain their potency in the sphere of political theory? But I am digressing.

While men were still attempting to discover the secret of control over the forces of nature, others, perhaps stronger of arm, perhaps with a more limited and more practical vision, had demonstrated the power that can be attained by organizing and controlling their fellow men. We do not know when first the tribe arose from the family to become a nation or when first a nation became an empire, but of this we can be fairly sure that the process was one of discipline and organization—of the growth of law—not by any means what we might regard as just laws—but of well-recognized laws made by men for their own purposes; we see man building up within an incomprehensible universe a comprehensible microcosm—an environment which he could control. Power takes on a new aspect—it becomes a force consciously wielded and directed to definite ends—futile ends perhaps because they may not have been the ultimate ends towards which the social organism must move or be moved if it is to survive.

At the close of the eighteenth century Tshaka,¹ the head of a small tribe of Zulus, set out to master his neighbours by organizing his tribesmen into regiments after an example originally derived from the Europeans. He carried his organization of his fellow men to the point of forbidding, under pain of death, any intercourse between the sexes except under licence—a licence granted only as a reward to the bravest and most successful of his regiments. The coward or the regiment that failed in battle was ruthlessly wiped out. In the eighteen years or so of his rule, we are told, he directly or indirectly caused the death of about two million souls and revolutionized the lives of the population within a radius of 500 to 1,000 miles from his capital. His social system lasted till the Zulu War of 1879 it produced, we are told, 'that innocence and general attractiveness that we habitually associate with naive intelligence, strong physique and an exacting foe'. But its basis was in fear and its justification was success in war. with failure in war and removal of fear it ended. It is interesting to be told that the occasion—

¹ 'Tshaka, the great Zulu Despot,' James Stuart, 'United Empire', 1924 (Vol. XV, new series).

I do not say the root cause—of that war was the escape of a Zulu girl and her recapture by the Zulus in British territory.

I need not refer in this company to the great empires of history of which none have survived intact as social organizations: but whatever the fate of the individual enterprise, the conception of power derived from the organization of mankind has survived.

Now let us come to a conception of power in the universe so revolutionary that even to-day it remains no more than a conviction. I refer to the conception that all the forces in the universe including those which underlie the development of man himself as a physical, social and moral being are subject to principles which by analogy can be described as laws: moreover, that those laws are essentially good if only because, being inevitable, they constitute the criterion of what is good: and that in the knowledge and understanding of those laws—could man ever understand them—lies the knowledge of good and evil and of man's ultimate destiny. This is a conception which in a loose kind of way is so often taken for granted that we forget how revolutionary such an idea was and is, and how profound are its implications. Its precise origin in point of history is so far as I know untraced, but we can say that at one period at least—between roughly the seventh and the second century before the Christian era—such a conception had appeared in the East and in the Mediterranean, sometimes in the form of religious teaching and at other times in that of philosophical speculation.

What is the basis of this conception? Did man import the conception of order into the universe merely on the analogy of the partial order he had established in his own social microcosm and found to be better for his immediate purposes than absence of order? Or may it be that in the search after the true basis and uses of power in the social organism man is seeking for something real and ultimately discoverable because that and nothing else will ultimately make possible his survival and continued evolution as a rational species?

It is at any rate a fact that from this same period date the first recorded speculations on the basis, the nature and the purpose of authority in the social and political microcosm. It is obvious that the natural and political sciences have not kept pace in development, the one at different times seeming to outstrip the other. Men were of necessity experimenting in the social organism and getting empirical results long before the beginning of scientific experiment as we understand it; but unlike the man of science the ruler of men cannot control his experiment and, if one fails, he may be too late to try another.

Nevertheless, variations are discernible in the conception of power in the social sphere. As to its basis, it has been con-

ceived as based on fear, on magic or its equivalent, on worship and on rational acquiescence arising from understanding. Social power must from the earliest times have been recognized as accompanied by responsibility—if only a responsibility for the preservation of the ruler himself. The so-called democratic political thought of Greece recognized the responsibility of the State only as extending to the interests of those of its component individuals who were entitled to the full rights of citizenship in mediæval Europe States and their populations were patrimonies to be inherited or acquired by marriage or warfare: and to Bacon¹ the prime responsibility was for the preservation and aggrandizement of the State itself. That the State or the social organism should be responsible for providing the greatest scope for the physical, intellectual and moral development of all individuals within its confines is still a new conception, and linked with it is the conception of the structure of the State as a thing that itself must be open to change and development, in order to provide that changing environment in which man may continue his further evolution as a rational being.

As to the employment of power some regard it as an evil to be avoided others would contrive a balance of authority in the social organism, to maintain just that essential degree of stability and material prosperity that may permit the development of the individual; others again conceive of power in the social organism as a thing to be centred in strong hands, in order that the individual life may be organized to fulfil the predetermined purposes of the ruler. One school of thought conceives the free working of the individual reason as the only means by which the true nature and uses of authority in the social organism can be ultimately discovered. Another sees men in the mass like a bar of soft iron, its molecules each magnetic but neutralizing each other, and needing only the application of an external magnetic force to draw them into unison and convert the inert mass itself into a powerful magnet to be employed by the master mind.

I do not say that in practice any of these conceptions is held and acted on to the exclusion of the other by any particular type of body politic. Democracies may be capricious, incomprehensible and tyrannical in no less degree than autocracies may have shown toleration and enlightenment. The most convinced believers in rational consent as the basis of authority may be led into the most drastic interference with individual liberty in the attempt to secure that environment of stability and prosperity without which social evolution cannot proceed: the believers in dominant personality may often trim their sails to the wind: but the differences in the underlying conception of authority remain.

¹ Bacon, *Essay* 29.

Such then are some of the variants of men's conception of power in the social organism. Have they a comparative value and if so by what standard can we value them? Is it possible to say that one is more likely to be on the main line of evolution than another?

Clearly no one can say that any of these conceptions has alone survived to the extinction of another. Yet this also is not surprising for evolution does not work in a straight line, and the data of history for all their volume and variety are not comparable to the data of experimental science.

This is what Fisher ¹ says after completing a study beginning with primitive man and ending with Communism and Fascism:

'One intellectual excitement has, however, been denied me. Men wiser and more learned than I have discerned in history a plot, a rhythm, a predetermined pattern. These harmonies are concealed from me. I can see only one emergency following upon another as wave follows upon wave, only one great fact with respect to which, since it is unique, there can be no generalizations, only one safe rule for the historian: that he should recognize in the development of human destinies the play of the contingent and the unforeseen. This is not a doctrine of cynicism and despair. The fact of progress is written plain and large on the page of history; but progress is not a law of nature. The ground gained by one generation may be lost by the next. The thoughts of men may flow into the channels which lead to disaster and barbarism.'

I venture to think, however, that this conclusion is not at variance with the conclusions of biology. Biological science has long given up the conception of evolution as a process free from chance or excluding the exercise of choice; yet reviewing as it attempts to do a period as far exceeding the known history of man as a millennium exceeds a day, science believes it can discern comprehensible developments if the period chosen be long enough. The problem for the political philosopher is whether he can forecast those developments and whether the study of the natural sciences can help him to do so.

Let us try to project ourselves back to the age of the giant Dinosaur or the Pterodactyl of the Jurassic period; could we have imagined that those great creatures would survive only as fossil remains? We do not know exactly what our own ancestors were like in those ages but we do know that they, the earliest mammals, and the Dinosaurs were contemporaneous and sprang from the same common stock. What chance or choice caused that other branch of the family to break off and develop into the Dinosaurs while our ancestors developed by infinitely slow degrees into men is still a matter for speculation, but when first

the brothers separated and the cousins grew further apart who could have known—as we believe that we know now—that the extreme and highly specialized development however much more formidable in its own environment was the one less likely to survive in a changing world?

Is it possible that some form of social organism will eventually emerge and survive as the most suitable environment made by man—or through man—for his further evolution?—and if so which of the social organisms that we know will be its parent or parents? May it be that here, too, the extreme manifestations are doomed to extinction? An interesting speculation!

Closing his address ¹ to this Society six years ago your then President, Colonel Seymour Sewell, said:

‘I would on the other hand postulate that man has, or in the very near future will have, rendered himself so independent of his environment that it will no longer be able to affect his physical characters and that if there is to be any further evolution, this must be the result of his own mental processes.’

That statement, I think, excludes the possibility of cataclysm brought about either by the forces of nature or by the abuse of man’s own powers—but leaving that aside, does not Colonel Sewell’s conclusion amount to this, that it is in the social rather than in the individual organism that we must look for evolution in the future?

I do not venture to state this as a theory—I merely put it forward as a speculation. But since the different groups into which mankind is divided can no longer, even if they would, isolate themselves one from another, it would seem possible that if man is to evolve as both a rational and a social being, there must also evolve a social microcosm wherein the basis, the nature and the uses of authority will be recognized universally and rationally both by those who exercise it and by those upon whom it is exercised.

Whether or not there will be any evolution on such lines must remain a matter of belief or lack of belief: should it ever occur it may not be in the time of any descendant of ours whose conceptions of the nature of power we can envisage with accuracy. But let us not fall into the error of assuming that such an evolution must naturally take place.

Once again an analogy from biological studies is of interest. In the biological world the individual organism bears traces of its primæval history and development, of which the significance may be discernible only to the man of science: thus also the mind of man is a complex entity with a long history. It may well be that in the differing political organisms of the world to-day lie differences not to be explained by causes within the

¹ Annual Address to the Asiatic Society of Bengal, 1930-1931.

scope of recorded history: if so, there is no reason to presume that the different races of the world will necessarily react in the same way to the same political, cultural and economic influences. We may well be still at the stage when each may require something distinctive in its political organism to satisfy some deep laid tendency, different in essence and persisting through long periods of cultural or political assimilation only to reassert itself at some later epoch.

In the German a combination of mysticism and docility with irrepressible vigour of race may be an underlying factor in the history of his social and political development. In Italy there is a people with proud memories of empire long disunited and politically impotent—a people whose history shows a strange combination of exuberance of talent and asceticism. When in Western Europe the temporal power of the Roman Emperors remained distinct from the power of the Church was it an accident that the Orthodox Church became the Church of Russia—a Church identified completely with the temporal power—or was there then some tendency to absolutism that still expresses itself to-day?

I would not be so rash as to generalize about India but it is, I think, true to say that in India until recent times the main current of thought was concerned with the development of the individual and the sanctity of his purely social environment using the word 'social' in its narrower sense: it regarded his reactions to mundane events as more important than the events themselves. The social organism was merely a medium in which man had to work out his own salvation—not a plastic medium susceptible of control but a rigid and unalterable one. To such thought the political structure was a mere superimposition and irrelevant so long as the social structure was kept intact. It was, I think, Akbar who first conceived the practical possibility of a unified political, cultural, and possibly even social organism for India as a whole—at about the same time as the first beginnings of national monarchies in Europe put a definite end to the conception of an unified political structure for Europe.

The conception of a socially and politically unified India as a practical possibility and the whole current of political thought that arises from that conception are modern in the extreme and directly attributable to the British connection. We already see, I state it merely as a fact and without any controversial implications, a conscious intellectual movement to sever that connection. Supposing it were severed? Is the tendency for unification so historically strong or so essential for the further evolution of the Indian peoples that it must survive, or is its necessity so demonstrable to reason and is the power of reason so strong as to ensure the easy predominance of such a tendency?

These are reflections suggested by recorded history but if tendencies arising from recorded history so strongly influence

the minds of successive generations may it not follow that the influences of unrecorded history are still extant and in the strictest sense of the word incalculable?

It is only on the assumption that all men are capable of evolving into completely rational beings and that the influence of reason will eventually overcome environment that we can conceive of the emergence and survival of one type of social organism. That assumption may be a conviction but it is no more: but if so be that there is an evolution in the social organism and if one conception of power may help us to understand and control that evolution, there is a need to seek out that conception not merely abstractly or *a priori* but also by the patient study of phenomena.

To those who believe in the possibility of evolution history rolls on like a mighty river ever seeking its way to the sea: it is not a canal cut straight to a clear destination nor does its path lie down a broad valley leading direct to the ocean. It may run over rapids or split into deltas: a stratum of rock or a new impetus, beginning perhaps with a small and insignificant cut, may turn back or divert its course for centuries: parts of it may dry up leaving on its dead banks the ruins of once famous cities.

Man engrossed in contemporary events, stands on its bank, and seeing only the rush and swirl of the eddies or the desolate surface of some disconnected swamp asks himself whether what he surveys is river at all: perhaps it is only an interminable whirlpool or a stagnant marsh, its surface broken now and then by bubbles only to relapse again into quiescence.

Some are content to watch its flow only hoping that it will not break its banks and engulf them in ruin. Others proclaim that they have found the main current, dig a channel here or build an obstruction there to guide or control it, not knowing and perhaps not caring whether they are leading the precious stream against an impenetrable ridge or diverting it into a futile backwater.

The student of recorded history standing on a little eminence traces back its course till soon it disappears into the mists of time—he sees how it has come and speculates how it might have gone had this obstruction been removed or that channel cleared, but he cannot divine what natural obstacles or what caprice of man may guide its course in the future.

To see its course as a whole, to comprehend the forces that drive it on, to envisage the country that it yet has to traverse, to find the main channel and to help it on its journey towards the sea—therein lies a task worthy, I think, of the highest intellects and the deepest learning.

JOHN ANDERSON.

The 15th February, 1937.

OFFICERS AND MEMBERS OF COUNCIL.

ROYAL ASIATIC SOCIETY OF BENGAL, 1937.

*Elected and announced in the Annual Meeting,
15th February, 1937.*

President.

H.E. The Rt. Hon'ble Sir John Anderson, P.C., G.C.B.,
G.C.I.E.

Vice-Presidents.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A.,
M.D., Ph.D., F.R.A.S.B.

A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S.,
F.R.S.E., F.R.A.S.B.

Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Secretaries and Treasurer.

General Secretary:—Johan van Manen, Esq., C.I.E.,
F.R.A.S.B.

Treasurer:—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S.,
F.R.S.E., F.R.A.S.B.

Philological Secretary:—S. K. Chatterji, Esq., M.A.,
D.Lit. (London), F.R.A.S.B.

Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi
M. Hidayat Hosain, Khan Bahadur Ph.D., F.R.A.S.B.

Natural History Secretaries { Biology:—Baini Prashad, Esq., D.Sc.,
F.Z.S., F.R.S.E., F.R.A.S.B.
Physical Science:—J. N. Mukherjee,
Esq., D.Sc. (Lond.), F.C.S. (Lond.).

Anthropological Secretary:—Rai Bahadur Ramaprasad
Chanda, B.A., F.R.A.S.B.

Medical Secretary:—Bt.-Col. R. N. Chopra, C.I.E., M.A.,
M.B., I.M.S., F.R.A.S.B.

Library Secretary:—M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A., F.R.A.S.B.

K. C. Mahindra, Esq., B.A. (Cantab.).

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

B. S. Guha, Esq., M.A., Ph.D. (Harvard).

W. D. West, Esq., M.A. (Cantab.).

EXHIBITION ANNUAL MEETING.

LIST OF EXHIBITS SHOWN AFTER THE ANNUAL MEETING OF
THE ROYAL ASIATIC SOCIETY OF BENGAL, ON THE
15TH FEBRUARY, 1937.

1. CHINTAHARAN ('HAKRAVARTI).

Illustrated Old Indian Manuscripts and Manuscript Covers.

(1) Aṣṭasūhasrikūprajñāpāramitā (R.A.S.B.—Cat. No. 2)—a Buddhist work copied in the 6th year of Mahīpāla (11th century).

(2) Aṣṭasūhasrikūprajñāpāramitā (R.A.S.B.—Cat. No. 3) copied in N.S. 268 (1148 A.D.).

(3) Aṣṭasūhasrikūprajñāpāramitā (R.A.S.B.—Cat. No. 7) copied in the 18th year of Govindapāla (12th century).

(4) Pañcarakṣā (R.A.S.B.—Cat. No. 77)—a Buddhist work copied in Śaka 1211 (1289 A.D.).

(5) A Mahāyānasūtra (R.A.S.B.—Cat. No. 39).

(6) A manual of Buddhist rituals (R.A.S.B.—Cat. No. 102) copied in N.S. 693 (1573 A.D.).

(7) A fragment of a work of Buddhist incantations (R.A.S.B.—Cat. No. 46) copied in N.S. 933 (1813 A.D.).

(8) Bhaktāmarastotra of the Jains (R.A.S.B.—No. 1545) of which each verse is illustrated with a full-page illustration.

(9) Pictures of the twenty-four Jain Tirthaṅkaras (R.A.S.B. No. 1544).

(10) Yantrendraprakāśa of Maheśvara containing illustrations of the constellations (Indian Museum MS. No. 3733).

(11) Sarvadarśanasamgraha (Indian Museum MS. No. 3735-6)—a book of omens containing illustrations of various objects.

(12) Painted covers of manuscripts belonging to the Vaiṣṇava Sāhitya Pariṣat illustrating incidents in the life of Lord Kṛṣṇa, e.g., sucking the breast of mother Yaśodā, playing on the flute with friends, pacifying Rādhā, female attendants waiting on Rādhā and Kṛṣṇa.

2. B. S. GUHA.

Wooden Effigies of the Red Kaffirs of the Hindukush Mountains.

Two wooden effigies brought by Dr. Guha in 1929 from the village of Kunisht in the Rampur valley (Chitral). These were erected in memory of a distinguished Red Kaffir warrior and a notable lady by the Red Kaffirs of Kunisht.

3. ARCHÆOLOGICAL SURVEY OF INDIA.

Painted pottery from Nal, Baluchistan (c. 3000 B.C.).

These vases come from the mound of Sohr Damb near the village of Nal, situated in the Jhalawan District of the Kalat State of Baluchistan. All the wares are wheel-made. The clay is usually fine, mostly light red in colour and well mixed, and the bulk of the pottery is pale or dark buff, straw-coloured, or of greenish hue. The

designs are applied in brown or sepia or black, and filled in after firing with blue, green, red, yellow or white, some of its linear patterns recalling those of the Susa I pottery. Most of these polychrome vases were found deposited in prehistoric burials and excavated by the Archæological Department. After discovery they were sent to the McMahon Museum, Quetta, from where they have been transferred to the Indian Museum, Calcutta, after the recent earthquake.

4. GEOLOGICAL SURVEY OF INDIA.

I. *The ferro-alloys.*

Certain metals—manganese, nickel, chromium, tungsten, molybdenum, vanadium and, quite recently, beryllium—are used to form special alloys with steel, and for this reason are known as the ferro-alloys. Each of these gives to steel special properties, so that they are almost indispensable in modern metallurgical and engineering practice. Except for manganese, chromium and perhaps nickel, the total amount of these metals available throughout the earth's crust is small, and within a century there is little doubt that most of our resources will have been entirely depleted. However, some of them are more or less interchangeable so far as certain properties are concerned, and research is even now demonstrating the possibility of using more common elements, particularly the alkalis as well as calcium and magnesium, as substitutes.

The specimens exhibited show the principal ores of the ferro-alloys.

Manganese.—The ores of manganese are mainly psilomelane (H_4MnO_5) and pyrolusite (MnO_2), but there are numerous other manganese minerals. At the present day the principal producing countries are Russia, with an annual out-turn of nearly 2 million tons, India with about 700 thousand tons, and the Gold Coast with 500 thousand to 18. In India manganese-ore is obtained mainly from the Central Provinces and Singhbhum.

Manganese has a two-fold use in metallurgy. Low grade ore, high in iron, is used in cast-iron smelting as a deoxidiser. Alloyed with steel it imparts toughness and resistance to abrasion to the metal. Manganese steels are particularly used for wheels, axles, tyres, springs and armour piercing projectiles.

Nickel.—The nickel ores consist of several nickel sulphide minerals, chief of which are pentlandite, millerite, gersdorffite and smaltite. Over 90 per cent. of the world's supply of nickel comes from Sudbury, in northern Ontario, Canada, a certain amount comes from New Caledonia, and a little is obtained as a bye-product from the treatment of the lead-zinc-copper ores of Bawdwin, Burma. Recently a new occurrence has been found in Finland.

The importance of nickel as a ferro-alloy is, perhaps, not so great as formerly, most of it being now used alloyed with copper (monel metal) or in nickel plating. Nickel increases the tensile strength of steel and also its resistance to shock. The chromium-steel alloy '18-8' contains 8 per cent. of nickel.

Chromium.—The sole ore for chromium is chromite ($FeCr_2O_4$). The principal producing countries are Southern Rhodesia, Transvaal, Turkey, Russia, Cuba, New Caledonia and India.

In India chromite is obtained from Baluchistan, Mysore and Singhbhum.

Low grade chromite, 35–47 per cent. Cr_2O_3 , is used as a refractory material for lining furnaces. High grade chromite, 48–54 per cent. Cr_2O_3 , is used for the manufacture of ferro-chrome which is added directly to the steel melt in making special steels. These steels, especially with some nickel also present, have remarkable anti-corrosive properties.

Tungsten.—There are two ores of tungsten: wolfram, $(\text{FeMn})\text{WO}_4$, and scheelite, CaWO_4 , the former being much the more common. Most of the world's supply comes from China, but Burma is responsible for a considerable production. Before the war all tungsten ores had to be sent to Germany for treatment. At the commencement of the war Germany had six months' supplies whilst we had to work out the method of treating the ore. Germany attempted to obtain molybdenite from Norway as a substitute, but by paying a high rate the Allies blocked even these supplies from Germany.

The effect of tungsten on steel is an increase of hardness and strength. Certain special cutting tools are of tungsten steel. Tungsten carbide is manufactured into extremely hard cutting tools.

Molybdenum.—The sole ore for molybdenum is molybdenite (MoS_2) . Almost the whole of the world's supply now comes from two mines, the Climax mine in Colorado and the Copper Creek mine in Arizona. A little is occasionally produced in Norway and Australia, and should the necessity arise, some could be obtained from Burma. Molybdenum can take the place of tungsten in steels to some extent, as it imparts similar properties. It assists resistance to corrosion at high temperatures.

Vanadium.—There are quite a number of vanadium-bearing minerals. The principal production is from Southern Rhodesia, South-west Africa and Peru. The production is very irregular as the demand for steel purposes is small. Recently, in India, certain iron-ores containing up to 5 per cent. of vanadium have been found, in Singhbhum and Mayurbhanj.

Vanadium steels are extremely tough and are used for high speed purposes. Their use would undoubtedly increase if obtainable at a lower cost.

Beryllium.—There is only one workable ore-mineral for beryllium-beryl. So far India has been the biggest producer of this mineral with 799 tons between 1932 and 1935 from Ajmer, but recent information indicates that larger quantities will shortly be mined in U.S.A. The use of beryllium in certain alloys have only recently become known. Owing to its rarity, the metal is very costly.

Beryllium is said to increase the tensile strength of steel enormously; certain alloys have been made with a tensile strength of 250,000 lbs. per square inch.

II. Series of specimens and diagrams illustrating the evolution of cephalopods.

The cephalopods, a group of marine invertebrates, illustrate in a graphic manner two interesting phases in their evolutionary history. In the earlier PROGRESSIVE phase the simple straight conical forms gradually assume, through various intermediate stages, a highly coiled form. In the later or RETROGRESSIVE phase (i.e. phase of senility) the process of coiling is reversed so that the geologically later genera assume forms that are characteristic of the earlier genera.

(1) The earlier cephalopods are simple, nearly straight forms as in *Orthoceras* and *Bactrites*. These are designated ORTHOCONES in the Nautiloids and BACTRICONES in the ammonoids.

(2) A later stage in coiling is represented in *Cyrtoceras*, in which the cone becomes slightly curved and constitutes the CYRTOCONE. This stage has not been found in the ammonoids.

(3) The slightly coiled *Cyrtoceras* stage is superseded by a more coiled form (the individual coils still remaining separate) and is found in *Gyroceras* and *Mimoceras*. These represent the GYROCONES and MIMACONES respectively.

(4) The tendency to coil persists to such an extent that gradually each successive coil overlaps the other, till finally the last whorl completely covers all the previous ones, as, for example, in *Nautilus* and many ammonoid genera. These constitute the NAUTILICONES and AMMONITICONES respectively.

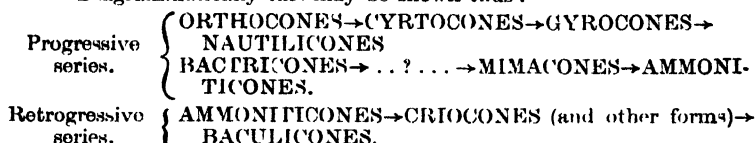
After this stage begins a tendency to uncoil and is best illustrated in the ammonoids, the majority of the nautiloids having become extinct.

(5) The uncoiling of Ammoniticones leads to the stage represented in such genera as *Spiroceras* and *Crioceras* and may be called the CRIOCONE. It represents a stage corresponding to the GYROCONES and MIMACONES of the progressive series.

(6) Other stages in uncoiling are represented by the genera *Scaphites*, *Ancyloceras* and *Hamites*. No particular name has been given to these.

(7) The final stage is a simple, almost straight cone, as in *Baculites*, and may be called the BACULICONE. This corresponds to the earlier ORTHOCONES or BACTRICONES of the nautiloids and the ammonoids respectively.

Diagrammatically this may be shown thus :



III. Specimens and photographs of the oldest fossils from India.

These specimens are the oldest fossils so far discovered in India. They are small, irregularly circular, lens shaped bodies with a covering of carbonaceous film. They have been identified as plants by some experts and as animals by others. They have even been regarded as of inorganic origin.

IV. Micro-structures of fossils.

The specimens, thin sections and photographs illustrate the internal and external structures of certain small organisms—the Foraminifera. The Foraminifera are interesting because they show two entirely different types of individuals in the same species, each type reproducing the other.

The larger discoidal forms give rise to the small conical forms which in turn reproduce the discoidal forms. The same process is then repeated.

V. Casts of the skulls of fossil Man.

Rhodesian Man, found in Northern Rhodesia. It has features which seem to indicate that this was nearer to the Chimpanzee and Gorilla than was Neanderthal Man.

Pittdown Man, found in Sussex, England, possesses a skull almost as well developed as that of modern Man, but has a jaw which is like that of an Anthropoid ape.

Peking Man.—Five more complete skulls of this species have very recently been found in China. It probably occupies an intermediate position between *Pithecanthropus* and Neanderthal Man.

5. THE GENERAL SECRETARY.

(1) *The Society's publications of 1936.*

- (a) Bibliotheca Indica.
- (b) Journal.
- (c) Proceedings, Indian Science Congress.

(2) *Some recent publications by Members of the Society.*

- (a) Bimala Churn Law : Śrāvasti in Indian Literature. Delhi, 1935.
- (b) Chintaharan Chakravarti : A Descriptive Catalogue of the Sanskrit Manuscripts in the Vangiya Sahitya Parishat. Calcutta, 1935.
- (c) Ramaprasad Chanda : Medieval Indian Sculpture in the British Museum. London, 1936.
- (d) R. N. Chopra : A Hand-book of Tropical Therapeutics. Calcutta, 1936.
- (e) S. M. Jaffar : Education in Muslim India, Peshawar City, 1936.
- (f) S. K. Bhuyan : Tungkhungia Barunji. Calcutta, 1933.
- (g) B. Prashad : Animal Remains from Harappa. Delhi, 1936.
- (h) A. G. Shirreff : Hindi Folk-songs. Allahabad, 1936.

ANNUAL REPORT FOR 1936.

The Council of the Royal Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1936.

1. Royal Title.

During the year His Majesty the King Emperor has been graciously pleased to grant permission to the Society to use the title 'ROYAL' before its name, and the Society therefore will henceforth be known as the 'ROYAL ASIATIC SOCIETY OF BENGAL'.

2. Ordinary Members.

Gains and losses.—These were as follows during the year :—

<i>Gains.</i>		<i>Losses.</i>	
Elections carried forward ..	7	Elections carried over ..	13
New elections ..	38	Applications withdrawn ..	3
		Elections lapsed ..	3
		Deaths ..	6
		Resignations ..	20
		Rule 38 ..	3
		Rule 40 ..	7
TOTAL ..	45	TOTAL ..	55

Initial total 425; net loss 10; final total 415.

Rule 38.—This Rule, dealing with members whose subscriptions are in arrears, was strictly applied and the names of 3 Members were subsequently removed from the roll for this cause.

Membership List.—The customary detailed cross-check of the membership lists with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 106, leaving more than ever room for substantial expansion.

Life-members.—The total of our Life-members has decreased by one and now stands at 55. Three were lost by death; and two Ordinary Members compounded during the year.

Deaths.—This year the loss to the Society by death has been less heavy than the year before. Amongst the distinguished and especially valued members lost to us, whose memory will be cherished, and for whose departure the Society is the poorer, the following may be mentioned :—

Sir R. N. Mookerjee (Life-member, 1898 and Honorary Fellow, 1929).

Rev. Sir N. D. Boatson-Bell (Life-member, 1895).
Dr. A. C. Woolner (Life-member, 1906 and Ordinary Fellow, 1927).
Lt.-Col. R. Knowles (Ordinary Member, 1920 and Ordinary Fellow, 1927).

3. Associate Members.

During 1936 no new Associate Members were elected, and none amongst those on the roll were lost.

The present number stands at 5 ; statutory maximum 15.

4. Special Anniversary Honorary Members.

Our eleven Special Anniversary Honorary Members have remained with us.

5. Institutional Members.

During the year the following new institutions were admitted to this class of membership :—

The Principal, Islamia College, Peshawar.
The Principal, Patna College, Patna.
The President, Forest Research Institute, Dehra Dun.

Their total number is 10.

6. Ordinary Fellows.

At the Annual Meeting held on the 3rd February, 1936, the following Members were elected Ordinary Fellows :—

Dr. S. K. Chatterji.
Dr. A. M. Heron.
N. G. Majumdar.
Nawab Habib-ur-Rahman Shirwani.

We lost through death the following two Ordinary Fellows :—

Lt.-Col. R. Knowles (1927).
Dr. A. C. Woolner (1927).

At the end of 1936 the number of Ordinary Fellows was 46 ; statutory maximum 50.

7. Honorary Fellows.

During the year no scholars were newly elected Honorary Fellows, and the following three distinguished Honorary Fellows were lost by death :—

Dr. C. Snouck Hurgronje (1927).
Sir Rajendra Nath Mookerjee (1929).
Dr. Charles J. H. Nicolle (1929).

Their number at the end of the year was 21 ; statutory maximum 30.

8. Obituary.

During the year the Society received to its great regret news of the death of the following distinguished relations :—

Major H. Brown (An Ordinary Member, from 1924 to 1930).

Mr. S. N. Mallik, C.I.E. (An Ordinary Member, from 1928 to 1930).

Sir Alexander Stow (An Ordinary Member, from 1923 to 1934).

9. Condolences.

The Council expressed condolences to the relatives of the following distinguished personality deceased during the year :—

Sir R. N. Mookerjee, K.C.I.E., K.C.V.O., an ex-President, Life-member and Honorary Fellow of the Society.

10. Council.

The Council met 11 times during the year. The attendance averaged 12 of the 20 component members.

The following resolutions of thanks were passed by the Council :—

To His Majesty the King Emperor for granting permission to use the title 'Royal' by the Society.

To Mr. D. C. Ghose for presenting to the Society a portrait of the late Sir C. C. Ghose.

To the retiring Members of Council and specially to the President, Sir L. L. Fernor, for the way in which they had served the true interests of the Society during the period of their Council Membership

To Mr. M. N. Mukherjee, B.E., for supervising and for giving valuable advices in connection with the repairs to the roof of the Society's building.

11. Office Bearers.

The changes in the Council during the year were as follows :—

Sir U. N. Brahmachari, Acting General Secretary, *vice* Mr. Johan van Manen, absent, from 16-5-36 to 16-11-36.

Mr. Percy Brown, Acting Library Secretary, *vice* Dr. A. M. Heron, absent, from 1-8-36 to 27-11-36.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora, absent, from 24-1-36 to 7-2-36; from 16-11-36 to 24-11-36 and from 16-12-36 to 31-12-36.

Absences other than those mentioned above were :—

H.E. Sir John Anderson, absent from 8-4-36 to 1-8-36 and from 1-9-36 to 3-11-36.

Sir David Ezra, absent from 16-4-36 to 1-11-36.

Sir B. L. Mitter, absent from 15-4-36 to 14-8-36.

Lt.-Col. R. Knowles, died on 3-8-36.

Dr. B. Prashad, absent from 20-5-36 to 1-7-36.

Dr. J. N. Mukherjee, absent from 19-10-36 to 14-11-36.

Dr. M. H. Hosain, absent from 25-9-36 to 25-10-36.

R.B. R. Chanda, absent from 1-4-36 to 10-5-36.

Bt.-Col. R. N. Chopra, absent from 15-4-36 to 15-8-36.

Mr. M. Mahfuz-ul Haq, absent from 5-6-36 to 1-7-36.

Mr. C. C. Calder, absent from 10-5-36 to 1-11-36.

Mr. K. C. Mahindra, absent from 18-4-36 to 1-11-36.

12. Committees of Council.

The standing Committees of Council during the year, namely, the Finance, Publication, and Library Committees, met monthly.

During the year a sub-committee consisting of the Philological Secretary, the Joint Philological Secretary, the General Secretary and Lt.-Col. N. Barwell, was appointed for the revision of the regulations for the lending of manuscripts.

13. Finance Committee.

The Finance Committee continued during the year to meet on dates different from, and a few days prior to, those of the Council Meetings.

A Special Meeting to frame the budget for the next year was held in December.

14. Office.

Staff.—Towards the close of the year Babu Probodh Chandra Deb, Despatching clerk of the Society, who had been ill, died and Mr. A. Michael was placed in charge of the despatching work.

Subordinate Staff.—In the subordinate staff the usual minor changes took place, which do not call for comment.

Correspondence.—This year the number of outgoing letters was 1,751 and that of incoming letters 2,859.

Files.—During the year intermittent work was continued with regard to our files, old and new, but not much real progress can be reported.

Stock-room.—Labelling, bundling, and registration of the contents of the stock-room were kept up-to-date during the year for new publications. The stock-books for new accessions and for sales were kept up.

Distribution.—No change was made in the mode of distribution of our periodicals and notices. A better system for the distribution of the free copies of the *Bibliotheca Indica* should be devised.

Addresses.—Printed address labels remained in use and the system of constant revision and addition which has been adopted enables us to keep the printed addresses up-to-date, month by month.

Card Register.—The card registers of the Society's membership and of that of the Indian Science Congress were kept up-to-date and checked at the close of the year.

Circulars and Forms.—The number of these printed during the year was 74. About Rs.1,042 were expended under this head.

15. Rules and Regulations.

During the year no changes were made in the Rules and Regulations of the Society.

16. Indian Science Congress.

Twenty-third Session.—The Twenty-third Annual Meeting of the Indian Science Congress was held in Indore, from January 2nd to January 8th, 1936. under the patronage of His Highness Maharajadhiraj Raj Rajeshwar Sawai Shree Yeshwant Rao Holkar Bahadur, G.C.I.E., Maharaja of Indore.

President.—Rai Sir U. N. Brahmachari Bahadur, Kt., M.A., M.D., Ph.D., F.S.M.F., F.A.S.B., F.N.I., was President of the Congress.

Proceedings.—The Proceedings of the Congress were published during the first week of October. The publication contained 674 pages and 3 plates which was 42 pages of letter-press and 3 plates more than the year before. The number of abstracts sent in for reading to the Congress numbered this year 570 as against 776 last year.

Administration.—During the latter months of the year the usual administrative work for the Congress in connection with the next session (Twenty-fourth Congress), to be held in Hyderabad, Deccan, was performed by the Society's office, which also attended to the general administration of the Congress when this was not in session. This year the burden of work thrown on the Society's office was as heavy as usual.

Programme and Abstracts.—As in the previous years the programme of the meeting and the abstracts were sent, as far as practicable, by post to all members who had applied for membership before the date of their publication. This year this date was again late, the 17th December.

Finance.—The Congress finances remained separate from those of the Society.

Secretaries.—The General Secretaries to the Congress were Dr. J. N. Mukherjee and Mr. W. D. West; and the Managing Secretary was Mr. Johan van Manen in his quality of General Secretary of the Society.

17. Indian Museum.

The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act, X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt.,

who was re-appointed as such for a further period of three years.

18. Kamala Lectureship.

The Society's nominee to serve on the Election Committee of the Kamala Lectureship, administered by the Calcutta University, remained the same, Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

19. National Institute of Sciences of India.

The Society's representatives to serve on the Council of the National Institute of Sciences of India remained the same, Bt.-Col. R. N. Chopra and Mr. C. C. Calder.

20. Deputations.

During the year the Society received no invitations from any learned institutes to send representatives at special functions.

21. Honours.

Amongst the Honours conferred during the year several were bestowed on members of the Society. Mr. Justice John Lort-Williams, Mr. B. C. Burt, Mr. G. R. Campbell received the honour of Knighthood. Sir N. N. Sircar was made a K.C.S.I. Maharaja Sir P. C. Tagore a K.C.I.E. Mr. Ghulam Yazdani a member of the O.B.E.

22. Congratulations.

The Society sent its cordial congratulations to the following :—

To Dr. B. Sahni, at the occasion of his being elected a Fellow of the Royal Society.

To Dr. H. E. Stapleton, at the occasion of his receiving the degree of Doctor of Literature from the University of Oxford.

Congratulations were also sent to several of the above recipients of Civic Honours.

23. Visits.

An appreciable number of distinguished visitors came to the Society during the year. Amongst them were scholars from Japan, France, Hungary, Hawai, Poland, England and the United States of America.

24. Social Functions.

A social function was held in the rooms of the Society on Friday, the 14th August, 1936, when H.E. the Governor of Bengal unveiled the portrait of the late Sir C. C. Ghose, an ex-President of the Society.

The Society also continued the practice of providing light refreshments to the Members and visitors present before the Ordinary Monthly Meetings.

25. Elliott Prize for Scientific Research.

The annual prize for 1935 for research in Geology and Biology (including Pathology and Physiology), was, in the Annual Meeting of 1936, awarded to Mr. Kalipada Biswas.

The prize offered for the year 1936 was for Mathematics. No paper was received to compete for this prize.

The prize for next year, 1937, will be for research in Chemistry.

26. Barclay Memorial Medal.

The (biennial) award of the Barclay Memorial Medal for 1935 was announced in the Annual Meeting of 1936. The medal was bestowed on Dr. Birbal Sahni.

The next award will be announced in the Annual Meeting of 1938.

27. Sir William Jones Memorial Medal.

The next (triennial) award of the Sir William Jones Memorial Medal, for 1937, for Asiatic researches in Philosophy, Literature and History will be announced in the Annual Meeting of 1938.

28. Annandale Memorial Medal.

The (triennial) award, for important contributions to the study of Anthropology in Asia, will be announced in the Annual Meeting in February, 1937.

29. Joy Gobind Law Memorial Medal.

The (triennial) award of the medal for conspicuously important work on Zoology in Asia, for 1935, was made to Prof. Lew Semenowitch Berg, Chief of the Bureau of Applied Ichthyology and Professor of Geography, State University, Leningrad.

The next award will be announced in the Annual Meeting of 1939.

30. Paul Johannes Brühl Memorial Medal.

The next (triennial) award for important contributions to the study for Asiatic Botany will be announced in the Annual Meeting of 1938.

31. Calcutta Indian Science Congress Prize.

The next award of the prize is to be made in connection with the next Session of the Congress to be held in Calcutta.

32. Pramatha Nath Bose Memorial Medal.

Rules for the triennial award having been framed and passed by Council, the Council will now determine the first year of bestowal.

33. Society's Premises and Property.

A sum of Rs.2,000 was set aside during the year to be credited to the Building Repairs Fund.

Necessary repairs to the roof were effected during the year.

During the year also, a complete re-wiring of our premises was effected at a cost of about Rs.1,200.

The various desiderata and problems existing under the heading Premises and Property have been mentioned in the Annual Reports of the last few years and have to be kept in mind until realization.

34. Accommodation.

Old problems to be carried over as still needing attention are : the provision of a set of small rooms for various uses, and the shelving of the stock-rooms as well as extension of shelving for the Library. A new problem is consequent on the receipt of 12,000 Sanskrit manuscripts made over to the Society as a permanent loan by the Government of India.

35. Artistic and Historical Possessions.

Mr. D. C. Ghose presented to the Society a portrait of the late Sir C. C. Ghose, an ex-President of the Society. This striking work of art, painted by Mr. Atul Bose, has been gratefully accepted by the Society and has been hung in the Society's North Landing.

36. Presentations, Donations, and Legacies.

Except for the presentations mentioned under the previous heading and those to be mentioned under the next, no presentations were received during the year.

37. Library.

Permanent Library Endowment Fund.—The fund received no further donation during the year. The total invested capital remained (face value) Rs.14,000, in 3½ per cent. Government paper. The accumulated interest will permit the purchase of one further paper to the face value of Rs.1,000 during next year.

Accessions.—The accessions to the library during the year, exclusive of about 200 periodicals received through exchange or otherwise, numbered 237 volumes, out of which 127 were purchased and 110 were acquired by presentation.

Binding.—During the year 481 units, including books, pamphlets, and periodicals, were bound at a cost of Rs.613, out of a total budget allowance of Rs.600 sanctioned for the purpose.

Purchases.—The allocation for the purchase of books for the year was Rs.2,500, but actually an amount of Rs.2,197 was spent.

Shelving.—Installation of special steel shelving for manuscripts and books in the western section remains to be effected, and provision has also to be made for further steel shelving for the current accessions of periodical literature. Our available shelving space for printed books is also rapidly coming to an end.

38. Finance.

(1) Appendix III contains the usual statements showing our accounts for 1936. No change has been made in the form of their presentation since the previous year.

(2) One statement, still carried over, is :

Statement No. 17. International Catalogue for Scientific Literature, London.

(3) The other statements are presented as in the previous year.

(4) The fund accounts again show their invested assets written down to the market values as at the end of the year, and Investment Account No. 25 shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown in it.

(5) Statement No. 27 shows the Balance Sheet of the Society and the different funds administered by and through it.

(6) The funds belonging to, or administered by, the Society may be classified as follows :—

(a) General Fund.

(i) Permanent Reserve.

(ii) Working Balance.

(b) Specific Funds belonging to the Society.

(c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1935 was as follows :—

	Face Value.	Market Value.	Face Value.	Market Value.
	31st Dec., 1935.	31st Dec., 1935.	31st Dec., 1936.	31st Dec., 1936.
	Rs.	Rs.	Rs.	Rs.
1. General Fund ..	2,88,600	2,75,400	2,78,700	2,91,000
(a) Permanent Reserve	2,52,000	2,40,900	2,53,200	2,65,500
(b) Working Balance	36,600	34,500	25,500	25,500
2. Specific Funds belonging to the Society ..	59,000	58,500	80,000	80,000
3. Funds administered by the Society	39,500	38,500	27,600	27,600
	3,87,100	3,72,400	3,86,300	3,98,600

(7) During the year Rs.832 were received through admission fees. Two ordinary members compounded their subscriptions to a total of Rs.388. Two new Institutional members, one with effect from 1st January, 1937, were admitted. The fees of Rs.100, together with the above amounts less a sum of Rs.30-9 cash advance which was brought forward from 1935, under this head aggregating to Rs.1,289-7 was transferred to the Permanent Reserve in the usual manner by conversion at the market rates as on 31st December, 1936, of Government 3½% Paper to the Face Value of Rs.1,200 belonging to the Temporary Reserve of the working balance, whilst a cash balance of Rs.78-7 is being carried over to the ensuing year, for adjustment under this head.

(8) The Government of Bengal maintained the 20% cut in all grants made by them to the Society during the year.

The Society received the following grants from the above Government :

	For	Rs.	Statement.
Journals	1,600	1
O.P. Fund No. 1	7,200	2
O.P. Fund No. 2 (for 1935-36 and 36-37)	4,800	3
Sanskrit MSS. Fund	2,880	4
Do. do.	2,560	4
		19,040	

(9) The income derived from advertising during the year amounted to Rs.9,600.

(10) The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 22, 23 and 24.

(11) Statement No. 20 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications and contingent charges.

(12) The Government Securities shown in Statement No. 25 are held in safe custody by the Imperial Bank, Park Street Branch. During the year, there was a substantial appreciation of the Securities amounting to Rs.15,623 increasing to that extent the book assets of the Society.

(13) Municipal assessment. For the fourth time in succession the Corporation has enhanced the Assessment on the Society's premises.

The enormous increase demanded has been reduced through the intervention of a taxation expert engaged by the Society. The municipal taxation is becoming a menace to the Society's life.

(14) The budget estimates for 1936 and the actuals for the year were as follows :—

Estimates.			Receipts.	Expenditure.
			Rs.	Rs.
Ordinary	..	..	54,500	54,500
Extraordinary	..	..	1,000	1,000
TOTAL			55,500	55,500
Actuals.				
Ordinary	..	..	52,368	52,152
Extraordinary	..	..	1,270	1,270
TOTAL			53,638	53,422

The ordinary income was about Rs.2,132 less than estimated.

On the expenditure side about Rs.2,348 was expended less than the estimate.

(15) The year's working shows an increase in the net balance to the extent of Rs.26,132 as compared to that of last year, taking into account the appreciation of our investments which amounted to Rs.15,623.

(16) The budget estimates for probable expenditure have as usual been framed to meet demands under various heads based on vigorous activity in all departments of the Society's work.

The receipts have been conservatively estimated.

BUDGET ESTIMATES FOR 1937.

Ordinary Receipts.

	1936 Estimate.	1936 Actuals.	Budget Estimates for 1937.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits {	10,000	10,011	10,000
	700	781	700
Advertising	9,600	9,600	9,600
Annual Grant	1,600	1,600	1,600
Donation .. .. .	.....	.....	.....
Miscellaneous	300	233	300
Members' Subscriptions	10,000	9,313	9,500
Publications, Sales and Subscriptions	5,000	3,930	4,000
Proportionate Share of Funds	7,000	7,000	7,000
Indian Science Congress Contribution	1,000	600	600
Rent	9,300	9,300	9,300
TOTAL ..	54,500	52,368	52,600

Ordinary Expenditure.

	Rs.	Rs.	Rs.
Salaries and Allowances	31,500	31,088	31,500
Commission	350	240	300
Stationery	500	304	400
Fan, Light and Telephone	800	770	800
Taxes	2,250	2,328	2,350
Postage	1,500	1,236	1,400
Freight .. .. .	.....	.....	.....
Contingencies	800	733	750
Petty Repairs	100	50	50
Insurance	500	500	500
Menials' Clothing	200	163	100
Office Furniture	450	35	200
Building Repairs	2,000	2,000	2,000
Provident Fund Share	700	685	700
Audit Fee	250	250	250
Books, Library	2,500	2,197	2,500
„ (Special Grant) .. .. .	.....	.....	.....
Binding, Library	600	614	600
Journal and Memoirs	6,000	4,567	6,000
Printing, Circular	800	1,042	1,000
Honorarium to General Secretary .. .. .	.....	2,500	.....
Bonus to R.A.S.B. Staff for Congress work .. .. .	.....	150	.....
Permanent Reserve	1,500	.....	.....
Replacement of fans	1,200	.....	1,200
Legal Fees .. .. .	.....	700	.....
TOTAL ..	54,500	52,152	52,600

Extraordinary Receipts.

		1936 Estimate.	1936 Actuals.	Budget Estimates for 1937.
By Fees		Rs.	Rs.	Rs.
by Admission Fees		650	832	650
by Compounding Fees		300	388	300
by Institutional Membership Registration Fees		50	50	50
TOTAL ..		<u>1,000</u>	<u>1,270</u>	<u>1,000</u>

Extraordinary Expenditure.

To Permanent Reserve		Rs.	Rs.	Rs.
by Admission Fees		650	832	650
by Compounding Fees		300	388	300
by Institutional Membership Registration Fees		50	50	50
TOTAL ..		<u>1,000</u>	<u>1,270</u>	<u>1,000</u>

39. Publications.

Journal.—Of the *Journal*, Volume I for 1935, two numbers, consisting of 278 pages and 3 plates to close the volume, and Volume II for 1936, three numbers, consisting of 224 pages and 9 plates were issued. The title-pages and index for Volume I were also published.

Of the *Journal*, Old Series, Volume LXXV, set aside for the 'Flora of the Malayan Peninsula', Part V, consisting of 78 pages was issued to complete the volume. The title-pages for this volume were also published.

In all 580 pages and 12 plates were published during the year.

Indian Science Congress.—The *Proceedings* of the 23rd Indian Science Congress, consisting of 674 pages and 3 plates, were published during the year.

Sales.—A sum of Rs.3,930 was realized, being Rs.1,070 below the budget estimate.

Expenditure.—The expenditure on the *Journal* was about Rs.4,275.

Advance Proceedings.—Four issues were published during the year.

Year-Book.—The *Year-Book* for 1935 is practically complete in print and will be issued early in the present year.

40. The Baptist Mission Press.

Under the capable superintendence of Mr. P. Knight the Baptist Mission Press continued to act as our chief printers and again gave invaluable assistance and maintained closest co-operation.

41. Agencies.

Our European and Indian Agents remained the same throughout the year. An extension of the list for Asiatic countries is desirable.

42. Exchange of Publications.

During the year, the following applications for exchanges with the Society's publications were considered by the Council, with the decisions as noted against them :—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Toyo Bunko, Tokyo, Japan	.. <i>Journal</i> (Science and Letters).
Trivandrum Public Library	.. Sanskrit publications.

43. Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of August and the recess month of October. The recorded average attendance was 16 members and 3 visitors. The maximum attendance was in January with 26 members and 8 visitors.

Seven meetings of the Medical Section were held during the year.

44. Exhibits.

In the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned :—

M. Mahfuz-ul Haq : A note on a rare MS. of al-Aghrād-al Tibbiya.
J. N. Mukherjee : A brass utensil pierced by hailstone on the 8th March, 1936.

Maharaja Sir P. C. Tagore : Panel representing Sir William Jones translating Shakuntala.

Sunder Lal Hora : Manuscript drawings of Indian fish and other animals recently acquired by the Society.

Baini Prashad : The Rufous-necked Hornbill ; Kabui Naga Cloths.

N. G. Majumdar : A terracotta toy-cart in the Indian Museum.

Chintaharan Chakravarti : A shorter version of Kaulavalinirnaya ; Newly acquired MSS. on the cult of Kubjika ; Little known works of two celebrated Tantric Writers.

Percy Brown : A metal Figurine of a Dancer.

Ramaprasad Chanda : Three small brass images from the Chittagong District.

Suniti Kumar Chatterji : An old Hindu Painting on cloth from the Island of Bali ; A set of old Oriya Playing cards.

Johan van Manen : A recent detailed map of Abyssinia ; A pre-historic iron implement from Malacca.

M. Hidayat Hosain : *Kharīdat al-Qasr* ; A Persian stencilled wall-hanging picture said to represent 'Umar *Khayyām*.

45. Communications.

Apart from papers submitted both for reading and subsequent publication, a number of communications, not intended for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications made during the year the following may be mentioned :—

N. Barwell : Influence of Oriental Motifs upon book-bindings in Europe from the 15th to the 18th century.

Johan van Manen : The recent descriptions of *Minya Gonkar*.

46. General Lectures.

During the year no General Lectures were given.

47. Philology.

Eleven papers were read during the year to be published later.

Five papers read in the previous years were published during the year.

Three papers were read and also published during the year.

48. Natural History : Biology.

Two papers read in the previous year were published during the year.

Two papers were read during the year to be published later.

49. Natural History : Physical Science.

No papers falling under this heading were either communicated to or published by the Society during the year.

50. Anthropology.

Six papers read in the previous years were published during the year.

One paper was read during the year to be published later.

51. Medical Section.

During the year seven meetings of the Medical Section were held, as detailed below :—

- January. Speaker : Bt.-Col. R. N. Chopra.
Subject : Concentration of atebirin in the circulating blood.
- Speaker : R. N. Chaudhury.
Subject : So-called Mystery Disease.
- February. Speaker : A. C. Ukil.
Subject : On Bronchiectasis—its etiology, diagnosis, prognosis and treatment.
- Speaker : K. V. Krishnan.
Subject : The mechanism of hæmolysis in malarial hæmoglobinuria of monkeys.
- March. Speaker : L. E. Napier.
Subject : On the anemias commonly met with in Calcutta.
- September. Speaker : R. B. Lal.
Subject : The use of the Entoray Machine as an anti-mosquito measure.
- Speaker : K. V. Krishnan.
Subject : Synopsis of laboratory studies on the 'Entoray' Lamp.
- October. Speaker : B. M. Das.
Subject : On a case of Agranulocytosis.
- Speaker : H. E. C. Wilson.
Subject : Nutritional Survey of School Boys in Calcutta and the Punjab by means of clinical observations, A.C.H. Index of Nutrition, and other measurements.
- November. Speaker : R. W. Linton.
Subject : Some aspects of variation in the Vibrios.
- Speaker : P. A. Maplestone.
Subject : On the successful use of cod-liver oil in an intractable skin condition.
- December. Speaker : D. N. Ray.
Subject : Maggot treatment in surgical therapy.
- Speakers : L. E. Napier and R. N. Chaudhury.
Subject : A Hospital Case Report.
- Speaker : B. Mukherji.
Subject : Treatment of cyanide poisoning and the mechanism of action of antidotes.
- Speaker : Sundar Rao.
Subject : On Fouadin in Filariasis.

52. Bibliotheca Indica.

Works published.—Actually published were two issues, Nos. 1526 and 1527, of an aggregate bulk of 10 fascicle units of 96 or 100 pages. The details are given in Appendix II to this report.

Of the above issues one constituted a complete volume, namely :—

1. *Ṭabaqāt-i-Akbarī*, English translation, Vol. 2.

Indian works continued.—The following works were continued during the year :—

1. *Manusmṛti*, with the commentary of Medhatithi, Sanskrit.
2. *Vaikhānasaśrautasūtram*, text, Sanskrit.
3. *Saundarānandakāvya*, text, Sanskrit (Second and revised edition).
4. *Ātmātattvaviveka*, text, Sanskrit.

Islamic works continued.—In the Islamic Series work was continued on two works, namely :—

1. *‘Amal-i-Ṣālih*, Persian.
2. *Rubā’iyāt of Umar-i-Khayyām*, Persian.
3. *Āin-i-Akbarī*, English translation.

New Works.—The following new work was sanctioned during the year to be taken up early next year :—

1. *Varna-ratnā-kara*.

53. Sanskrit Manuscripts.

The Government of India agreed to the permanent loan to the Society of a large collection of about 12,000 Sanskrit manuscripts hitherto preserved by the Archaeological Section, Indian Museum, Calcutta. The Council gratefully accepted the offer and these 12,000 manuscripts were made over to the Society during the year. A handlist of these manuscripts will be prepared in due course.

54. Catalogue of Sanskrit Manuscripts.

The work during the year 1936 was concentrated upon the task of revising and making press ready the entire copy for the balance of Volume VIII, on Tantra, with a view to printing it off during the year 1937. This revision was almost completed by the end of the year.

55. Arabic and Persian Manuscripts, Search and Catalogue.

The work in this department was steadily pursued.

Binding.—The binding and repairing of previously and newly acquired MSS. was continued and 84 MS. volumes were bound during the year, making a total of 1,192 MSS. bound and repaired since the end of 1924.

Acquisitions.—During the year seventy-two manuscripts were acquired by purchase at a cost of Rs.197 and six MSS. were acquired by presentation.

Reference books.—The collection of Persian and Arabic MSS. catalogues was again added to and its completion continues an object of attention. A number of biographical works of reference were also purchased during the year.

Catalogue.—The work on the Arabic Catalogue was steadily pursued and up to 512 pages were print-ordered during the year. The remaining manuscript was revised and will probably be printed off during the coming year.

56. Numismatics.

Materials for Numismatic Supplement (for 1935-36) and for the Special Silver Jubilee Number have been received during the year and are in the press under preparation. They will be published next year.

[APPENDIX I.]

Membership Statistics.

(As calculated for December 31st, for 30 years.)

YEAR.	ORDINARY.							EXTRA-ORDINARY.					FEL-LOWS			
	PAYING.				NON-PAYING.			Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.	Grand Total Membership.	Honorary.	Ordinary.	
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.									
1907 ..	174	175	20	369	31	20	51	420	4	12	..	..	16	436	28	..
1908 ..	181	193	17	391	38	19	57	448	4	13	..	..	17	465	30	..
1909 ..	183	217	13	413	40	20	60	473	4	14	..	..	18	491	28	..
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	28
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	428	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49
1934 ..	217	112	30	359	26	57	83	442	..	6	7	12	25	467	26	47
1935 ..	206	107	28	341	28	56	84	425	..	5	7	11	23	448	24	44
1936 ..	214	106	24	344	16	55	71	415	..	5	10	11	26	441	21	46

[APPENDIX II.]

List of Publications issued by the Royal Asiatic Society of Bengal during 1936.**(a) Bibliotheca Indica :**

		Price		
		Rs.	As.	P.
(1) Amal-i-Salih, Vol. III, Fasc. 4 (1 unit)	..	1	0	0
(2) Tabaqat-i-Akbari, English, Vol. 2 (9 units)	..	11	4	0

(b) Journal and Proceedings (Third Series) :

Vol. I : Year Book (12 units)	..	..	4	8	0
Vol. I (Letters) : No. 3 (8 ,, )	..	..	3	0	0
Vol. II (Letters) : No. 1 (10 ,, )	..	..	3	12	0
Vol. II (Letters) : No. 2 (8 ,, )	..	..	3	0	0
Vol. II (Science) : No. 1 (6 ,, )	..	..	2	4	0

Title-page and Index to Vol. I (Free to Members).

(c) Journal (Old Series) :

Vol. LXXV : No. 5 (5 units)	1	14	0
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(d) Advance Proceedings :

Vol. III : Nos. 1-4 (Free to Members).

(e) Miscellaneous :

Proceedings, Twenty-third Indian Science Congress	18	0	0
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Abstract Statement
of
Receipts and Disbursements
of the
Royal Asiatic Society of Bengal
for
the Year 1936

STATEMENT No. 1.

1936.

General

Income and Expenditure Account

			Rs.	As.	P.	Rs.	As.	P.
TO ESTABLISHMENT :								
Salaries and Allowances	..	..	31,088	8	3			
Commission	..	..	240	11	3			
						31,329	3	6
GENERAL EXPENDITURE.								
Stationery ..	..	..	304	11	0			
Fans and Light	..	..	477	3	3			
Telephone ..	..	..	293	1	0			
Taxes ..	..	..	2,327	10	0			
Postage ..	..	..	1,236	0	0			
Contingencies	..	..	733	0	3			
Printing Circulars, etc.	..	..	1,042	7	0			
Audit Fee ..	..	..	250	0	0			
Petty Repairs	..	..	50	14	0			
Insurance ..	..	..	500	0	0			
Menials' Clothing	..	..	162	11	0			
Furniture ..	..	..	34	8	0			
Bonus ..	..	..	150	0	0			
Honorarium	..	..	2,500	0	0			
Legal Fees..	..	..	700	0	0			
						10,762	1	6
LIBRARY AND COLLECTIONS.								
Books ..	..	..	2,196	15	5			
Binding ..	..	..	613	4	0			
						2,810	3	5
PUBLICATIONS.								
Journal and Proceedings and Memoirs		....				4,274	15	0
CONTRIBUTION TO FUNDS.								
Provident Fund Contribution for 1936		....				685	2	0
						49,861	9	5
TRANSFER TO—								
Building Repair Fund Account	..	....				2,000	0	0
SUNDRY ADJUSTMENTS.								
Bad Debts written-off ..	..	....				475	0	0
BALANCE AS PER BALANCE SHEET ..	..	....				2,90,939	12	8
						3,43,276	6	1

STATEMENT No. 1.

Fund.

1936.

for the year to 31st December, 1936.

	Rs.	As.	P.	Rs.	As.	P.
By BALANCE FROM LAST ACCOUNT			2,75,327	13	5

CASH RECEIPTS.

Interest on Investments ..	10,012	0	0			
Interest on Fixed Deposits ..	781	13	0			
Advertising ..	9,600	0	0			
Miscellaneous ..	233	12	6			
Government Grant ..	1,600	0	0			
Rent ..	9,300	0	0			
Contribution from Indian Science Congress ..	600	0	0			
				32,127	9	6

PERSONAL ACCOUNT.

Members' Subscriptions ..	10,094	0	0			
Admission Fees ..	832	0	0			
Life Membership Fees ..	388	0	0			
Institutional Membership Fees ..	50	0	0			
Miscellaneous ..	83	10	0			
				11,447	10	0

TRANSFER FROM FUNDS.

Proportionate Share in General Expenditure—

Oriental Pub. Fund (1) Account ..	2,500	0	0			
Sanskrit MSS. Fund Account ..	2,000	0	0			
Arabic and Persian MSS. Fund Account ..	2,500	0	0			
				7,000	0	0

PUBLICATION FUND ACCOUNT ..	....			3,667	7	2
Appreciation, Investments revalued on 31-12-36 ..	....			13,705	14	0

STATEMENT No. 2.

1936.

Oriental Publication

From a monthly grant made by the Government of Bengal for the publi-
(Rs. 500), and for the publication of Sanskrit
(*Less 20% from the*

				Rs.	As.	P.
To Printing .. .. .	..	..	..	13	0	0
Proportionate Share in General Expenditure .. .. .	..	..	..	2,500	0	0
Balance as per Balance Sheet .. .. .	..	..	..	6,270	1	11
				<hr/>	<hr/>	<hr/>
				8,783	1	11

STATEMENT No. 3.

1936.

Oriental Publication

From an annual grant made by the Government of Bengal of
Historical
(*Less 20% from the*

				Rs.	As.	P.
To Balance from last Account .. .. .	..	..	..	3,722	10	7
Printing .. .. .	..	..	..	1,002	12	0
Balance as per Balance Sheet .. .. .	..	..	..	74	9	5
				<hr/>	<hr/>	<hr/>
				4,800	0	0

STATEMENT No. 4.

1936.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal
by the Society ; and Rs. 3,600 from the
(*Less 20% from the*

				Rs.	As.	P.	Rs.	As.	P.
To Pension .. .. .	..	..	..	130	0	0			
Cataloguing .. .. .	..	..	..	1,200	0	0			
Purchase of MSS. .. .. .	..	..	..	411	0	0			
				<hr/>	<hr/>	<hr/>	1,741	0	0
Proportionate Share in General Expenditure .. .. .	..	..	..	....	....	....	2,000	0	0
Balance as per Balance Sheet .. .. .	..	..	..	....	....	....	18,142	1	3
							<hr/>	<hr/>	<hr/>
							21,883	1	3

STATEMENT No. 2.

Fund No. 1, in Account with R.A.S.B.

1936.

publication of Oriental Works and Works of Instruction in Eastern Languages
 Works hitherto unpublished (Rs. 250).
 1st of April, 1932.)

				Rs.	As.	P.
By Balance from last Account	..	.		1,583	1	11
Annual Grant	..	..	..	7,200	0	0
				8,783	1	11

STATEMENT No. 3.

Fund No. 2, in Account with R.A.S.B.

1936.

Rs. 3,000 for the publication of Arabic and Persian Works of
 Interest.
 1st of April, 1932.)

				Rs.	As.	P.
By Government Grant for 1935-36, 1936-37	..			4,800	0	0
				4,800	0	0

STATEMENT No. 4.

Account, in Account with R.A.S.B.

1936.

for the publication of the Catalogue of Sanskrit Manuscripts acquired
 same Government for Research Work.
 1st of April, 1932.)

				Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....					16,443	1	3
Annual Grant for Research Work, 1936-37	..	..	..	2,880	0	0			
Annual Grant for Cataloguing	..		..	2,560	0	0			
							5,440	0	0
							21,883	1	3

STATEMENT No. 5.

1936.

Arabic and Persian Manuscripts

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society ; for the purchase of further Manuscripts,
Manuscripts found in

		Rs.	As.	P.	Rs.	As.	P.
To Purchase of MSS.	..	274	9	0			
Binding	..	357	8	0			
Cataloguing	..	2,400	0	0			
Reference Works	..	235	1	0			
					3,267	2	0
Proportionate Share in General							
Expenditure	..	....			2,500	0	0
Balance as per Balance Sheet	..	....			3,301	11	0
					9,068	13	0

STATEMENT No. 6.

1936.

Barclay Memorial

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

		Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal	..	....			16	5	0
Balance as per Balance Sheet—							
Rs. 700, 3½% G.P. Notes, 1854-55..		703	8	0			
Surplus at date	..	16	7	8			
					719	15	8
					736	4	8

STATEMENT No. 7.

1936.

Servants' Pension Fund

Founded in 1876 as the Piddington Fund

		Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—							
Rs. 3,000, 3½% G.P. Notes, 1854-55		3,015	0	0			
Surplus at date	..	116	8	6			
					3,131	8	6
					3,131	8	6

STATEMENT No. 5.

Fund Account, in Account with R.A.S.B.

1936.

the Cataloguing and Binding of Arabic and Persian Manuscripts, acquired and for the preparation of notices of Arabic and Persian various Libraries in India.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	4,068 13 0
Government Grant for 1936-37	5,000 0 0

9,068 13 0

STATEMENT No. 6.

Fund Account, in Account with R.A.S.B.

1936.

General, I.M.S., for the foundation of a medal for the and Biological Science.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	679 11 8
Interest realized for the year	22 7 0
Appreciation, Investments revalued on 31-12-36	34 2 0
			<hr/> 736 4 8 <hr/>

STATEMENT No. 7.

Account, in Account with R.A.S.B.

1936.

with Rs. 500 odd from the Piddington Fund.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	2,888 13 6
Interest realized for the year	96 7 0
Appreciation, Investments revalued on 31-12-36	146 4 0
			<hr/> 3,131 8 6 <hr/>

STATEMENT No. 8.

1936.

Annandale Memorial Fund

From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 4,000, 3½% G.P. Notes, 1854-55	4,020	0	0			
Surplus at date	489	13	9			
				<hr/>		
				4,509	13	9
				<hr/>		
				4,509	13	9
				<hr/>		

STATEMENT No. 9.

1936.

Permanent Library Endowment

From gifts received,

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 14,000, 3½% G.P. Notes, 1854-55	14,070	0	0			
Surplus at date	661	7	8			
				<hr/>		
				14,731	7	8
				<hr/>		
				14,731	7	8
				<hr/>		

STATEMENT No. 10.

1936.

Sir William Jones Memorial

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	3,015	0	0			
Surplus at date	112	10	0			
				<hr/>		
				3,127	10	0
				<hr/>		
				3,127	10	0

STATEMENT No. 8.

Account, in Account with R.A.S.B.

1936

started in 1926.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			4,176	5	9
Interest realized for the year			138	8	0
Appreciation, Investments revalued on 31-12-36			195	0	0
				<hr/>		
				4,509	13	9

STATEMENT No. 9.

Fund Account, in Account with R.A.S.B.

1936.

started in 1926.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			13,598	13	8
Interest realized for the year			450	2	0
Appreciation, Investments revalued on 31-12-36			682	8	0
				<hr/>		
				14,731	7	8

STATEMENT No. 10.

Fund Account, in Account with R.A.S.B.

1936.

1926, by Dr. U. N. Brahmachari.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			2,884	15	0
Interest realized for the year			96	7	0
Appreciation, Investments revalued on 31-12-36			146	4	0
				<hr/>		
				3,127	10	0

STATEMENT No. 11.

1936.

Pramathanath Bose Memorial

From a sum gifted for

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 800, 3½% G.P.N., 1842-43 } ..	1,809	0	0			
" 1,000 " " 1865 } ..						
Surplus at date	103	11	0			
				1,912	11	0
				1,912	11	0

STATEMENT No. 12.

1936.

Joy Gobind Law Memorial

From a donation for the purpose

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal				273	14	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	3,015	0	0			
Surplus at date	87	0	0			
				3,102	0	0
				3,375	14	0

STATEMENT No. 13.

1936.

*Building Fund*From a sum of Rs. 40,000 given by the Government of India
proceeds of a portion

	Rs.	As.	P.
To Balance as per Balance Sheet	6,321	9	6
	6,321	9	6

STATEMENT No. 11.

Fund Account, in Account with R.A.S.B.

1936.

the purpose in 1935.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			1,721	4	0
Interest realized for the year			103	11	0
Appreciation, Investments revalued on 31-12-36			87	12	0
				<hr/>		
				1,912	11	0

STATEMENT No. 12.

Fund Account, in Account with R.A.S.B.

1936.

in 1929, by Dr. Satya Churn Law.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,133	3	0
Interest realized for the year			96	7	0
Appreciation, Investments revalued on 31-12-36			146	4	0
				<hr/>		
				3,375	14	0

STATEMENT No. 13.

Account, in Account with R.A.S.B.

1936.

towards the rebuilding of the Society's premises, and from the sale of the Society's land.

	Rs.	As.	P.
By Balance from last Account	6,321	9	6
	<hr/>		
	6,321	9	6

STATEMENT No. 14.

1936.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P.N., 1854-55 .	3,015	0	0			
Surplus at date	768	10	7			
				3,783	10	7
				3,783	10	7

STATEMENT No. 15.

1936.

Dr Bruhl Memorial Fund

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Balance as per Balance Sheet—						
Rs. 1,000, 3½% G.P.N., 1854-55 ..	1,005	0	0			
Surplus at date	22	0	0			
				1,027	0	0
				1,027	0	0

STATEMENT No. 16.

1936.

Building Repair Fund

	Rs.	As.	P.
To Building Repairs	1,530	2	0
Balance as per Balance Sheet	8,337	14	0
	9,868	0	0

STATEMENT No. 14.*Fund Account, in Account with R.A.S.B.**1936.*

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,540	15	7
Interest realized for the year			96	7	0
Appreciation, Investments revalued on 31-12-36			146	4	0
					<hr/>	<hr/>	<hr/>
					3,783	10	7

STATEMENT No. 15.*Account, in Account with R.A.S.B.**1936.*

1929, by the Brühl Farewell Committee.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			946	3	0
Interest realized for the year			32	1	0
Appreciation, Investments revalued on 31-12-36			48	12	0
					<hr/>	<hr/>	<hr/>
					1,027	0	0

STATEMENT No. 16.*Account, in Account with R.A.S.B.**1936.*

			Rs.	As.	P.
By Balance from last Account	..	..	7,868	0	0
Transfer from R.A.S.B. General Fund	..	..	2,000	0	0
			<hr/>	<hr/>	<hr/>
			9,868	0	0

STATEMENT No. 17.

1936.

International Catalogue of Scien-

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	4,374	7	8
			4,374	7	8

STATEMENT No. 18.

1936.

Provident Fund Account,

From contributions by the

			Rs.	As.	P.	Rs.	As.	P.
To Cost of a stamp	..	..	....			0	1	0
Balance as per Balance Sheet—								
Rs. 5,000, 3% G.P.N., 1941	..		5,250	0	0			
„ 6,000, 5-year Postal Cash Cer-	..		5,512	8	0			
tificates	..		6,789	3	0			
Savings Bank and Advances	..					17,551	11	0
						17,551	12	0

STATEMENT No. 19.

1936

Advances Account,

			Rs.	As.	P.
To Balance from last Account	..	..	1,135	0	0
Payments during the year	..	..	1,355	0	0
			2,490	0	0

STATEMENT No. 17.

tific Literature, in Account with R.A.S.B.

1936.

			Rs.	As.	P.
By Balance from last Account	..	..	4,374	7	8
			<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

in Account with R.A.S.B.

1936.

Society and its Staff.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....				15,663	13	6
Interest realized during the year	..	23	8	6				
Staff Contribution for the year	..	685	2	0				
Society's Contribution for the year	..	685	2	0				
						1,393	12	6
Interest realized from Savings Bank, etc.	..	....				209	12	0
Appreciation, Investments revalued on 31-12-36	..	....				284	6	0
						<u>17,551</u>	<u>12</u>	<u>0</u>

STATEMENT No. 19.

in Account with R.A.S.B.

1936.

			Rs.	As.	P.
By Refunds during the year	..	..	940	0	0
Balance as per Balance Sheet	..	..	1,550	0	0
			<u>2,490</u>	<u>0</u>	<u>0</u>

STATEMENT No. 20.

1936.

Personal

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			3,126	1	9
Advances .. ..	....			2,532	2	3
Asiatic Society's Subscriptions, etc. ..	11,447	10	0			
Subscriptions to Journal and Proceedings, and from Book Sales, etc.	3,667	7	2			
	<hr/>			15,115	1	2

20,773 5 2

STATEMENT No. 21.

1936.

Publication Fund Account,

From sale proceeds

	Rs.	As.	P.	Rs.	As.	P.
To Books returned, etc.			179	9	0
Publications of the R.A.S.B.			3,667	7	2
Balance as per Balance Sheet			7,229	5	9

11,076 5 11

STATEMENT No. 20.

Account.

1936.

	Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts during the year ..	....			16,698	13	5
Bad Debts written off, R.A.S.B. ..	475	0	0			
Books returned, etc. ..	179	9	0			
				654	9	0
Balance as per Balance Sheet ..	....			3,419	14	9

Outstandings.	Amount due to Society.			Amount due by Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members	8,715	13	0	721	13	0
Subscribers, etc.	27	5	0	122	0	0
Bill Collector's	...	...	...	800	0	0
Deposit	1,133	10	3	313	0	6
Miscellaneous						
	4,876	12	3	1,456	13	6

20,773 5 2

STATEMENT No. 21.

in Account with R.A.S.B.

1936.

of publications.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account ..	....			7,236	7	0
Cash Sale of Publications ..	....			172	7	9
Credit Sale of Publications, etc. ..	2,179	7	2			
Subscriptions to Journal and Proceed- ings, etc. ..	1,488	0	0			
				3,667	7	2

11,076 5 11

STATEMENT No. 22.

1936.

(1) Deposit Account (Savings Bank

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			4,051	5	6
Deposits of Interest realized from loans during the year ..	23	8	6			
Deposits of Contributions during the year	1,369	0	0			
Deposits of Advances returned ..	940	0	0			
				2,332	8	6
Interest realized for the year 1936 ..	....			209	12	0
				6,593	10	0

STATEMENT No. 23.

1936.

(2) Deposit Account (Fixed Deposit

	Rs.	As.	P.
To Balance from last Account	25,000	0	0
Deposit during the year	100	0	0
	25,100	0	0

STATEMENT NO. 24.

1936.

(3) Deposit Account (Fixed Deposit

	Rs.	As.	P.
To Balance from last Account	15,000	0	0
Deposits during the year	30,000	0	0
	45,000	0	0

STATEMENT No. 22.*Deposit with Imperial Bank of India).***1936.**

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal for Staff Advances, etc.			1,355	0	0
Cost of a stamp			0	1	0
Balance as per Balance Sheet			5,238	9	0

 6,593 10 0

STATEMENT No. 23.*with Central Bank of India).***1936.**

	Rs.	As.	P.
By Withdrawals during the year	25,100	0	0
	25,100	0	0

STATEMENT No. 24.*with Imperial Bank of India).***1936.**

	Rs.	As.	P.
By Balance as per Balance Sheet	45,000	0	0
	45,000	0	0

STATEMENT No. 25.

1936.

(4) Investment

	Rs.	As.	P.
To Balance from last Account	3,16,052	2	0
Appreciation, Investments revalued on 31-12-36..	15,623	6	0
	3,31,675	8	0

Face Value Rs.	FUNDS.	Rate %	81st December, 1936, Valuation.	81st December, 1935, Valuation.	Appreciation.
		Rs. %	Rs. A. P.	Rs. A. P.	Rs. A.
	ROYAL ASIATIC SOCIETY OF BENGAL.				
	PERMANENT RESERVE.				
16,700	3½% G.P. Notes, 1842-43	...			
1,58,700	3½% G.P. Notes, 1854-55	...			
44,300	3½% G.P. Notes, 1865	...			
6,000	3½% G.P. Notes, 1879	...			
32,000	3½% G.P. Notes, 1900-01	...			
2,52,700		100/8/-	2,58,963	2,41,644	12,319
500	3½% G.P. Notes, 1896-97	90/-	450	431	18
	TEMPORARY RESERVE				
19,000	3½% G.P. Notes, 1900-01	100/8/-	19,085	18,168	926
11,400	4½% Loan, 1955-60	120/8/-	13,737	13,295	441
	BARCLAY MEMORIAL FUND.				
700	3½% G.P. Notes, 1854-55	100/8/-	708	609	98
	SERVANTS' PENSION FUND.				
3,000	3½% G.P. Notes, 1854-55	100/8/-	3,015	2,868	146
	ANNANDALE MEMORIAL FUND.				
4,000	3½% G.P. Notes, 1854-55	100/8/-	4,020	3,825	195
	PERMANENT LIBRARY ENDOWMENT FUND.				
14,000	3½% G.P. Notes, 1854-55	100/8/-	14,070	13,387	682
	SIR WILLIAM JONES MEMORIAL FUND.				
3,000	3½% G.P. Notes, 1854-55	100/8/-	3,015	2,868	146
	PRAMATHANATH BOSE MEMORIAL FUND				
800	3½% G.P. Notes, 1842-43	100/8/-			
1,000	3½% G.P. Notes, 1865	100/8/-	1,800	1,721	87
	JOY GOBIND LAW MEMORIAL FUND				
3,000	3½% G.P. Notes, 1854-55	100/8/-	3,015	2,868	146
	CALCUTTA SCIENCE CONGRESS PRIZE FUND.				
3,000	3½% G.P. Notes, 1854-55	100/8/-	3,015	2,868	146
	DR BRÜHL MEMORIAL FUND.				
1,000	3½% G.P. Notes, 1854-55	100/8/-	1,005	956	48
	PROVIDENT FUND.				
5,000	8% Loan, 1941	105/-	5,250	5,190	59
6,000	Post Office 5-year Cash Certificates	91/14/-	5,512	5,287	225
3,28,100			3,31,675	3,16,052	15,623

STATEMENT No. 25.*Account.**1936.*

			Rs.	As.	P.
By Balance as per Balance Sheet	..	..	3,31,675	8	0
			3,31,675	8	0

STATEMENT No. 26.

1936.

Cash

For the year ended 31st

To	Rs.	As.	P.	Rs.	As.	P.
Balance from last Account				4,370	4	7
General Fund Account	32,127	9	6			
Oriental Publication Fund No. 1 Account	7,200	0	0			
Oriental Publication Fund No. 2 Account	4,800	0	0			
Sanskrit Manuscripts Fund Account	5,440	0	0			
Arabic and Persian Manuscripts Fund Account	5,000	0	0			
Barclay Memorial Fund Account	22	7	0			
Servants' Pension Fund Account	96	7	0			
Annandale Memorial Fund Account	138	8	0			
Permanent Library Endowment Fund Account	450	2	0			
Sir William Jones Memorial Fund Account	96	7	0			
Pramathanath Bose Memorial Fund Account	103	11	0			
Joy Gobind Law Memorial Fund Account	96	7	0			
Calcutta Science Congress Prize Fund Account	96	7	0			
Dr. Brühl Memorial Fund Account	32	1	0			
Provident Fund Account	1,393	12	6			
Advances Account	940	0	0			
Personal Account	16,698	13	5			
Publication Fund Account	172	7	9			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	1,355	0	0			
Fixed Deposit Account, Central Bank of India, Calcutta	25,100	0	0			
				1,01,360	4	2
				1,05,730	8	9

STATEMENT No. 26.

Account.

1936.

December, 1936.

By	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	49,861	9	5			
Oriental Publication Fund No. 1 Account ..	13	0	0			
Oriental Publication Fund No. 2 Account ..	1,002	12	0			
Sanskrit Manuscripts Fund Account ..	1,741	0	0			
Arabic and Persian Manuscripts Fund Account	3,267	2	0			
Barclay Memorial Fund Account ..	16	5	0			
Joy Gobind Law Memorial Fund Account ..	273	14	0			
Building Repair Fund Account ..	1,530	2	0			
Advances Account	1,355	0	0			
Personal Account	2,532	2	3			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	2,332	8	6			
Fixed Deposit Account, Central Bank of India, Calcutta	100	0	0			
Fixed Deposit Account, Imperial Bank of India, Calcutta	30,000	0	0			
				94,025	7	2
Balance as per Balance Sheet—						
In hand	72	13	6			
With the Imperial Bank of India, on Current Account	11,632	4	1			
				11,705	1	7

1,05,730 8 9

STATEMENT No. 27.

1936.

Balance

As at 31st

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	2,90,939	12	8			
Oriental Publication Fund No. 1 Account	6,270	1	11			
Oriental Publication Fund No. 2 Account	74	9	5			
Sanskrit Manuscripts Fund Account ..	18,142	1	3			
Arabic and Persian Manuscripts Fund Account	3,301	11	0			
Barclay Memorial Fund Account ..	719	15	8			
Servants' Pension Fund Account ..	3,131	8	6			
Annandale Memorial Fund Account ..	4,509	13	9			
Permanent Library Endowment Fund Account	14,731	7	8			
Sir William Jones Memorial Fund Account	3,127	10	0			
Pramathanath Bose Memorial Fund Account	1,912	11	0			
Joy Gobind Law Memorial Fund Account	3,102	0	0			
Building Fund Account	6,321	9	6			
Calcutta Science Congress Prize Fund Account	3,783	10	7			
Dr. Brühl Memorial Fund Account ..	1,027	0	0			
Building Repair Fund Account ..	8,337	14	0			
International Catalogue of Scientific Literature, London	4,374	7	8			
Provident Fund Account	17,551	11	0			
Publication Fund Account	7,229	5	9			
				3,98,589	1	4
				3,98,589	1	4

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and, in our opinion, set forth correctly the position of the Society as at 31st December, 1936

PRICE, WATERHOUSE, PEAT & Co.,

Calcutta,
12th February, 1937Auditors,
Chartered Accountants,
Registered Accountants.

STATEMENT No. 27.

Sheet.

1936.

December, 1936.

ASSETS.

			Rs.	As.	P.	Rs.	As.	P.
Advances Account	..	..	1,550	0	0			
Personal Account	..	..	3,419	14	9			
			<hr/>			4,969	14	9
Deposits :—								
Savings Bank Deposit Account, Imperial Bank of India	..	..	5,238	9	0			
Fixed Deposit Account, Imperial Bank of India	..	..	45,000	0	0			
			<hr/>			50,238	9	0
Investment Account	..	..	....			3,31,675	8	0
Cash Account :—								
In hand	..	..	72	13	6			
With the Imperial Bank of India, on Current Account	..	..	11,632	4	1			
			<hr/>			11,705	1	7

3,98,589 1 4

S. L. HORA,
Honorary Treasurer.

[APPENDIX IV.]

Abstract Proceedings Council, 1936.

(Rule 48 f.)

ACCOMMODATION -

Request for the use of the Society's Hall by the Himalayan Club.
Approve.

No. 3. 27-1-36.

Application from Mohammed Yakooob that the Society may kindly let out to him a piece of vacant land on the south eastern side of the Society's premises for opening an aerated water shop. Reject.

No. 14. 25-5-36.

Request for the use of the Society's Committee room for a Committee Meeting of the National Institute of Sciences of India on Saturday, the 27th June, at 5 p.m. Grant.

No. 10. 22-6-36.

Request for the use of the Society's Lecture Hall by the Mining and Geological Institute of India. Record; General Secretary's action approved.

No. 2. 27-7-36.

Request for the use of the Society's Committee room and Lecture Hall on August 29th and 30th by the National Institute of Sciences of India. Grant.

No. 5. 25-8-36.

Letter from the Honorary Secretary, Himalayan Club, enquiring whether the Society would let out a corner room for the use of their club. Unable to rent out the corner room in view of the fact that it may be needed for the Society's own use.

No. 3. 30-9-36.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant.

No. 1. 17-12-36.

AGENCIES -

Appointment of an Agent to the Society in Japan. That the General Secretary be empowered to make the necessary arrangements to appoint a suitable agent.

No. 16. 27-1-36.

ANNUAL MEETING—

Annual Meeting. Record.

No. 12. 27-1-36.

Annual Report. Accept.

No. 13. 27-1-36.

ARTISTIC POSSESSIONS —

Letter from Mr. D. C. Ghose offering to present to the Society a portrait of the late Sir C. C. Ghose. Accept with thanks to donor.
No. 4. 27-1-36.

Letter from the Master, H. M.'s Mint, regarding the Bust of W. N. Forbes. Get the bust repaired under the supervision of the Mint Master.
No. 16. 30-9-36.

BIBLIOTHECA INDICA—

Proposal by Dr. S. K. Chatterji to publish in the Bibliotheca Indica the Varna-ratna-kara to be edited jointly by Dr. Chatterji and Pandit Babua Misra. Dr. Chatterji to contribute an English introduction. An Index Verborum to be added. No remuneration to Dr. Chatterji; usual editor's remuneration for the Maithili text to Pandit Misra. Accept for publication.

No. 11. 27-4-36.

Request from the Theosophical University Press, California, to send frequently works relating to Oriental studies published by the Society for reviewing in their 'Forum'. Supply them with price lists of the Society's publications.

No. 11. 22-6-36.

BUILDING—

Recommendation Finance Committee No. 4 of 24-9-36. Recommendation of the General Secretary and the Honorary Treasurer with regard to the advice from Mr. M. N. Mukherjee, B.E., Consulting Engineer to the Calcutta University, regarding Building Repairs. Recommended to the Council to accept the suggestions of Mr. M. N. Mukherjee as contained in his letters of 2-9-36 and 21-9-36. That the work of repairs should be taken up at once which should be entrusted to Messrs. Martin & Co., who should be asked to do the half-terracing of the roof except the north-west and south portions as suggested by Mr. Mukherjee and Messrs. Lyall Marshall & Co. to do the work of covering the T. iron roofs with 'C' grade Malthoid with gravel finish (5 layers) at Rs. 21 per 100 sq. ft. under the supervision of Messrs. Martin & Co. As the work is very urgent the General Secretary be requested to place the order with Messrs. Martin & Co. immediately. Accepted by Council.

No. 8. 30-9-36.

Matters relating to the repairs to the Society's building. Accept recommendations of the Finance Committee; letter of thanks to be sent on behalf of the Society to Mr. M. N. Mukherjee for his valuable advice and help.

No. 9. 30-9-36.

Report completion of the repairs to the roof of the Society's building, and the re-wiring. Record.

No. 3. 24-11-36.

COMMITTEES—

The Standing Committees of the Society for 1936-37 to be constituted as follows:—

Finance :

President	} <i>Ex-Officio.</i>
Treasurer	
General Secretary	
Dr. J. N. Mukherjee.	
Dr. Baini Prashad	

Library :

President	} <i>Ex-Officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

Publication :

President	} <i>Ex-Officio.</i>
Treasurer	
General Secretary	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

No. 3.

24-2-36.

CONDOLENCES—

Report death of Sir R. N. Mookerjee. Resolved: That the Council of the Royal Asiatic Society of Bengal place on record their deep sense of sorrow at the death of Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., who had been a President of the Society and a member of Council for several years; also their appreciation of the great services which the late Sir Rajendranath had rendered to the Society. The resolution, moved by the Chairman, was adopted all members standing. Also resolved that the condolence of the Council be communicated to Lady Mookerjee, and the General Secretary should arrange for an obituary notice to be read at the Monthly Meeting of the Society.

No. 1.

25-5-36.

CONGRATULATIONS AND THANKS.

Letter from Mr. D. C. Ghose offering to present to the Society a portrait of the late Sir C. C. Ghose. Accept with thanks to donor.

No. 4.

27-1-36.

Letter of thanks to H.E. the Viceroy for the acceptance by him of office of a Patron of the Society. Record and announce in the Monthly Meeting.

No. 1.

27-7-36.

Congratulation to Dr. H. E. Stapleton on his being admitted to the degree of Doctor of Literature by the University of Oxford. Record.
No. 1. 30-9-36.

COUNCIL—

Finance Committee No. 6 of 23-1-36. Absence of Honorary Treasurer from Calcutta. Recommended that during the Society's financial year 1936-37, the General Secretary for the time being be authorised automatically to officiate as Honorary Treasurer to the Society during any absence of the Honorary Treasurer for the time being from Calcutta from the initial date of any such absence until notification of his return to Calcutta and resumption of Office. Accepted by Council.

No. 8.

27-1-36

Officiating arrangements, Honorary Treasurer. Modify the general resolution regarding officiating arrangements to the usual specific one as follows—That the General Secretary (Mr. Johan van Manen) be authorised to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer, Dr. S. L. Hora, from Friday, the 14th January, 1936, until notification of the latter's return to Calcutta and resumption of office, and put up the general one in the first meeting of the new Council.

No. 9.

27-1-36.

Acceptance of seat on the Council by Council members. Record.
No. 1. 24-2-36.

Absence of Honorary Treasurer from Calcutta (postponed from the Council Meeting of 27-1-36). Resolved that during the Society's financial year 1936-37, the General Secretary, for the time being, be authorised automatically to officiate as Honorary Treasurer, during the absence from Calcutta of the Honorary Treasurer, for the time being, from the initial date of any such absence until notification of his return to Calcutta and resumption of office.

No. 6.

24-2-36.

Report General Secretary's interview with the President, H. E. the Governor of Bengal. Record. Fix Tue-day, 31st March as date for next Council Meeting and accept with thanks suggestion to meet at Government House.

No. 11.

24-2-36.

Letter from the Asst. Secretary to H. E. the Governor of Bengal regarding the Council Meeting of the Society in Government House on March 31st. Record.

No. 2.

31-3-36.

Leave General Secretary. Resolved that Mr. van Manen be allowed leave of absence for six months from such date as he may find convenient and that an honorarium of Rs. 7,000 be paid to him which will include his ordinary monthly compensation allowance for the period. That Sir Upendranath Brahmachari be requested to act as General Secretary to the extent of dealing with all major questions and signing correspondence, taking full responsibility; and that Dr. Hidayat Hossain be requested generally to assist Sir Upendranath Brahmachari, taking charge of the office and preparing matters for Sir Upendranath.

No. 10.

27-4-36.

Report absence of General Secretary from the 16th May and taking over charge by Sir U. N. Brahmachari. Record.

No. 3. 25-5-36.

Notice of absence of the Library Secretary. Mr. Percy Brown to act.

No. 4. 25-8-36

The question of having Council Meeting in October (Pooja holidays are from 19th to 30th October). No Committee and Council meetings in October.

No. 12. 30-9-36.

Report return from leave of the General Secretary. Record.

No. 1. 24-11-36.

Informal consideration composition of Council, 1937-38.

After discussion, the following list of candidates for nomination to next year's Council was placed before the meeting for consideration.

President	..	..	H. E. Sir John Anderson.
Vice-President	..	..	Sir U. N. Brahmachari.
"	..	..	Dr. A. M. Heron.
"	..	..	Mr. Percy Brown.
"	..	..	Lt.-Col. N. Barwell.
General Secretary	..	..	Mr. Johan van Manen.
Treasurer	..	..	Dr. S. I. Hora.
Phil. Secretary	..	..	Dr. S. K. Chatterji.
Jt. Phil. Secretary	..	..	Dr. M. Hidayat Hossain.
Nat. Hist. Secretary (Biology)	..	..	Dr. Bains Prashad.
" " " (Phys. Science)	..	..	Dr. J. N. Mukherjee.
Anthropological Secretary	..	..	R. B. R. Chanda
Medical Secretary	..	..	Lt.-Col. R. N. Chopra.
Library Secretary	..	..	Mr. M. Mahfuz-ul Haq.
Member of Council	..	..	Mr. C. C. Calder.
"	"	..	Mr. N. G. Majumdar.
"	"	..	Mr. K. C. Mahindra.
"	"	..	Dr. B. S. Guha.
"	"	..	Mr. W. D. West.
"	"	..	Sir John Lort-Williams.

Unanimously resolved that the General Secretary do print and circulate to the members of Council the list of the Council as at present constituted, together with the new list placed before the meeting, and provided with a new column for additional names; and that these lists be returned to the General Secretary within a week of date of issue; and that a list be compiled of the candidates finally proposed and be placed before the next Council Meeting to be voted upon.

No. 13. 24-11-36.

Council nomination, 1936-37. The General Secretary reported that 17 Council members had returned the list of candidates circulated, duly signed and unanimously approved with one alternate suggestion. Resolved that the list of names placed before the Council in the November meeting be declared that of the Council candidates for election to next year's Council, and that it be ordered to be issued to Resident members, as prescribed in Rule 44.

No. 11. 17-12-36.

EXCHANGE OF PUBLICATIONS—

Application for an exchange of publication from the Toyo Bunko, (The Oriental Library), Tokyo, Japan. Exchange, 'Journal (Letters and Science).'

No. 12.

31-3-36.

Letter from Dr. Baini Prashad requesting sympathetic consideration of a request from the Field Museum of Natural History. Grant on exchange basis. The Field Museum of Natural History be requested to send us the back numbers of their publications which are lacking in the set, viz:

- (a) Botanical Series from 1913-1936,
- (b) Zoological Series from 1913-1936,
- (c) Geological Series from 1913-1936,
- (d) Ornithological Series from 1906-1936,

in exchange for the back numbers of the Society's Proceedings and Journal as far as available. The Field Museum be further requested to continue sending to the Society the above series without any break, in addition to the Anthropological and Report Series which are being received from them in exchange.

No. 5.

27-7-36.

Request for an exchange of the Society's publications with the Trivandrum Sanskrit Series from the Curator, Publication of Oriental Manuscripts, Trivandrum. Exchange the Sanskrit publications of the Society with the Trivandrum Sanskrit Series.

No. 2.

30-9-36.

FANS—

Recommendation Finance Committee No. 6 of 19-11-36. Fans. Renewals of fans to be taken in hand, but all fans to be individually tested in the first instance and the General Secretary to obtain quotations and place them before the next Finance Committee. Accepted by Council.

No. 8.

24-11-36.

Recommendation Finance Committee No. 4 of 16-12-36. Replacement of Society's fans. Defer. Accepted by Council.

No. 6.

17-12-36.

FELLOWS—

Recommendations of the meeting of Resident Fellows. Accept; put up for election in the Annual Meeting, Dr. S. K. Chatterji, Dr. A. M. Heron, Mr. N. G. Majumdar and Nawab Habib-ur-Rahman Shirwani.

No. 7.

27-1-36.

Recommendation of the meeting of Resident Fellows on 16th June, 1936. Accept the recommendation that the title of Fellows should henceforth be 'F.R.A.S.B.' instead of F.A.S.B. as a consequential change of the Society's name from 'Asiatic Society of Bengal' to 'Royal Asiatic Society of Bengal'. It was resolved to communicate this change of title of Fellows to the next Ordinary Monthly Meeting.

No. 12.

22-6-36.

FINANCE—

Recommendations of the Finance Committee of 23-1-36. Accept with the following modifications. Council subscriptions to be invited to meet expenditure of Council tea. The cost of the General Meeting tea to be debited to the Society.

No. 8.

27-1-36.

Recommendation Finance Committee No. 3 of 23-1-36. Society's Monthly General Meeting Tea expenditure. Recommend that tea be provided to General Meetings and Council Meetings and the cost debited to the Society. Council order: Council subscriptions to be invited to meet expenditure for Council teas. The cost for the General Meeting tea to be debited to Society.

No. 8.

27-1-36.

Finance Committee No. 5 of 23-1-36. Remuneration to staff working on holidays. Recommendation : Hold over pending collection of information concerning practices in various offices. Accepted by Council.

No. 8.

27-1-36.

Finance Committee No. 6 of 23-1-36. Absence of Honorary Treasurer from Calcutta. Recommended that during the Society's financial year, 1936-37, the General Secretary for the time being be authorised automatically to officiate as Honorary Treasurer to the Society during any absence of the Honorary Treasurer for the time being from Calcutta from the initial date of any such absence until notification of his return to Calcutta and resumption of Office. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 7 of 23-1-36. Application from S. K. Roy for a loan of Rs. 250 from the Provident Fund. Grant, to be returned in monthly instalments of Rs. 10 at 3% per annum. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 8 of 23-1-36. Application from R. K. Iyer for a loan of Rs. 250 from the Provident Fund. Grant, to be returned in monthly instalments of Rs. 20 at 3% per annum. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 9 of 23-1-36. Permanent Reserve Fund. Transfer Rs. 2,400 to Permanent Reserve Fund from closing balance. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 4(b) of 21-2-36. Application for a loan of Rs. 80 from the Provident Fund by B. B. Mukherjee. Grant as far as rules allow, subject to the Honorary Treasurer's approval. Interest at 3% per annum. Accepted by Council.

No. 5.

24-2-36.

Recommendations of the Finance Committee of 27-3-36. Accept. The General Secretary reported that Messrs. Lakhiraj Shewakram having since cleared all arrears no further action need be taken.

No. 8.

31-3-36.

Library Committee No. 2(a) of 31-3-36. Recommendation by the Philological Secretary for the purchase of a set of the Calcutta Sanskrit Series at a cost of approximately Rs. 100. Accepted by Council.
No. 9. 31-3-36.

Recommendation Finance Committee No. 3 of 27-3-36. The question of the renewal of the Society's Fire Insurance Policy No. 15467332, with the Commercial Union Assurance Co., Ltd., which expires on 19th April, 1936. Renew. Accepted by Council.
No. 8. 31-3-36.

Recommendation Finance Committee No. 4 of 27-3-36. The question of the realization of arrears of rent from Messrs. Lakhiraj Shewakram & Co., Lessee, 1-1, Park Street, Calcutta. The General Secretary reported that Messrs. Lakhiraj Shewakram having since cleared all arrears no further action need be taken.
No. 8. 31-3-36.

Recommendation Finance Committee No. 2(b) of 24-4-36. Consideration of re-investing the liquid cash of the Society as two fixed deposits with the Central Bank of India Ltd., Calcutta, (maturing by the end of this month). Transfer Rs. 5,000 to the current account with the Imperial Bank of India; re-invest Rs. 10,000 for six months on fixed deposit with the Central Bank. Accepted by Council.
No. 6. 27-4-36.

Recommendation Finance Committee No. 3 of 24-4-36. Application from K. Krishnamurti to be allowed to join the Society's Provident Fund. Decline. Accepted by Council.
No. 6. 27-4-36.

Recommendation Finance Committee No. 4 of 24-4-36. Application from the Society's staff for the Science Congress Bonus. That in view of the Committee's recommendation no claim for bonus can be entertained but that as an act of grace without creating a precedent a sum of Rs. 150 be paid to such members of the staff and in such proportion as may be recommended by the Honorary Treasurer and the General Secretary. Accepted by Council.
No. 6. 27-4-36.

Recommendation Library Committee No. 5(a) of 27-4-36. Subscription Indian Zoological Memoirs, Lucknow. Purchase issues not yet in the Society's Library and place standing order for future issues. Accepted by Council.
No. 7. 27-4-36.

Leave General Secretary. Resolved that Mr. van Manen be allowed leave of absence for six months from such date as he may find convenient and that an honorarium of Rs. 7,000 be paid to him which will include his ordinary monthly compensation allowance for the period. That Sir Upendranath Brahmachari be requested to act as General Secretary to the extent of dealing with all major questions and signing correspondence, taking full responsibility; and that Dr. Hidayat Hosain be requested generally to assist Sir Upendranath Brahmachari, taking charge of the office and preparing matters for Sir Upendranath.
No. 10. 27-4-36.

Remittance from Raja K. Deb, Rai Mahasai, who was removed under Rule 38 in 1934, for regularising his membership. The matter to be settled in accordance with the rules in consultation with the Honorary Treasurer.
No. 5. 30-9-36.

Recommendation Finance Committee No. 4 of 24-9-36. Recommendation of the General Secretary and the Honorary Treasurer with regard to the advice from Mr. M. N. Mukherjee, B.E., Consulting Engineer to the Calcutta University, regarding Building Repairs. Recommended to the Council to accept the suggestions of Mr. M. N. Mukherjee as contained in his letters of 2-9-36 and 21-9-36. That the work of repairs should be taken up at once which should be entrusted to Messrs. Martin & Co., who should be asked to do the half-terracing of the roof except the north-west and south portions as suggested by Mr. Mukherjee and Messrs. Lyall Marshall & Co. to do the work of covering the T. iron roofs with 'C' grade Malthoid with gravel finish (5 layers) at Rs. 21 per 100 sq. ft. under the supervision of Messrs. Martin & Co. As the work is very urgent the General Secretary be requested to place the order with Messrs. Martin & Co. immediately. Accepted by Council.

No. 8.

30-9-36.

Matters relating to the repairs to the Society's building. Accept recommendations of the Finance Committee; letter of thanks to be sent on behalf of the Society to Mr. M. N. Mukherjee for his valuable advice and help.

No. 9.

30-9-36.

Recommendation Finance Committee No. 6 of 19-11-36. Fans. Renewals of fans to be taken in hand, but all fans to be individually tested in the first instance and the General Secretary to obtain quotations and place them before the next Finance Committee. Accepted by Council.

No. 8.

24-11-36.

Recommendations of the Special Finance Committee of 15-12-36. (Budget estimates for 1937). Accept.

No. 5.

17-12-36.

Recommendation Finance Committee No. 3(d) of 16-12-36. Increment of Salaries to Staff. The Honorary Treasurer and the General Secretary to put up the proposals; menials to get their usual increment. Accepted by Council.

No. 6.

17-12-36.

Recommendation Finance Committee No. 3(e) of 16-12-36. Budget estimates for 1937. Accept. Accepted by Council.

No. 6.

17-12-36.

Recommendation Finance Committee No. 4 of 16-12-36. Replacement of Society's fans. Defer. Accepted by Council.

No. 6.

17-12-36.

Recommendation Finance Committee No. 5 of 16-12-36. Authority to make payments of bills before the end of the year. Recommend. Accepted by Council.

No. 6.

17-12-36.

Removal of names under Rule 38. 1. Shiv Bandhu Pande Rs.72; 2. G. T. Sitling Rs.66; 3. J. P. Shulka Rs.72. Apply Rules.

No. 10.

17-12-36.

Payment of bills. That the Treasurer be authorised to make payments of bills before the end of the year before they are formally passed by the Finance Committee.

No. 12.

17-12-36.

HONORARY FELLOWS—

Report death of Sir R. N. Mookerjee. Resolved: That the Council of the Royal Asiatic Society of Bengal place on record their deep sense of sorrow at the death of Sir Rajendranath Mookerjee, K.C.I.E., K.C.V.O., who had been a President of the Society and a member of Council for several years; also their appreciation of the great services which the late Sir Rajendranath had rendered to the Society. The resolution, moved by the Chairman, was adopted all members standing. Also resolved that the condolence of the Council be communicated to Lady Mookerjee, and the General Secretary should arrange for an obituary notice to be read at the Monthly Meeting of the Society.

No. 1.

25-5-36.

INDIAN SCIENCE CONGRESS ASSOCIATION—

Recommendation Finance Committee No. 4 of 23-1-36. Application from the Society's staff for the Indian Science Congress Bonus. Decline. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 4 of 24-4-36. Application from the Society's staff for the Science Congress Bonus. That in view of the Committee's recommendation no claim for bonus can be entertained but that as an act of grace without creating a precedent a sum of Rs. 150 be paid to such members of the staff and in such proportion as may be recommended by the Honorary Treasurer and the General Secretary. Accepted by Council.

No. 6.

27-4-36.

INSTITUTIONAL MEMBERS -

Application for Institutional Membership from the Forest Research Institute, Dehra Dun. Accept the application.

No. 4.

31-3-36.

INSURANCE—

Recommendation Finance Committee No. 3 of 27-3-36. The question of the renewal of the Society's Fire Insurance Policy No. 15467332, with the Commercial Union Assurance Co., Ltd., which expires on 19th April, 1936. Renew. Accepted by Council.

No. 8.

31-3-36.

KAMALA LECTURESHIP—

Representation on the Selection Committee, Kamala Lectureship, Calcutta University. Sir Upendra Nath Brahmachari to be the Society's representative.

No. 3.

31-3-36.

LEASE--

Recommendations of the Finance Committee of 27-3-36. Accept. The General Secretary reported that Messrs. Lakhiraj Showakram have since cleared all arrears that no further action need be taken.

No. 8.

31-3-36.

Recommendation Finance Committee No. 4 of 27-3-36. The question of the realization of arrears of rent from Messrs. Lakhiraj Showakram & Co., Lessee, 1-1, Park Street, Calcutta. The General Secretary reported that Messrs. Lakhiraj Showakram having since cleared all arrears no further action need be taken.

No. 8.

31-3-36.

LECTURES—

General Lectures. Dr. J. N. Mukherjee offered to deliver a General Lecture to the Society towards the end of July on 'Soil'. Accept the offer of Dr. Mukherjee with thanks, Col. Knowles to be requested to deliver a General Lecture at a time and on a date convenient to him.

No. 13.

22-6-36.

Letter from Dr. J. Ph. Vogel suggesting that the Council of the Society might invite Dr. Hermann Goetz to give one or two lectures to the Society. Dr. H. Goetz to be invited to give a lecture to the Society during the winter on any of the following subjects:—

1. Life and Art in the Mughal period (with slides).
2. Eastern Elements in European paintings of the 15th-17th Centuries (with slides).
3. Indo-European Cultural Relations in the Light of European Colonial History.

No. 4.

30-9-36.

LIBRARY—

Library Committee No. 2(a) of 31-3-36. Recommendation by the Philological Secretary for the purchase of a set of the Calcutta Sanskrit Series at a cost of approximately Rs. 100. Accepted by Council.

No. 9.

31-3-36.

Request from the Joint Philological Secretary that the Society may purchase a number of biographical works for the Arabic and Persian Manuscript department, at a total cost of Rs. 65-7-0. Purchase.

No. 13.

31-3-36.

Recommendation Library Committee No. 5(a) of 27-4-36. Subscription Indian Zoological Memoirs, Lucknow. Purchase issues not yet in the Society's Library and place standing order for future issues. Accepted by Council.

No. 7.

27-4-36.

Recommendation Library Committee No. 3 of 24-11-36. That Sir U. N. Brahmachari be co-opted a member of the Committee for the remainder of the year. Accepted by Council.

No. 9.

24-11-36.

LOAN OF MSS.—

Report on manuscripts lent out during the month. Record.

No. 5.

27-1-36.

Applications for loan of manuscripts:—

- (a) Bimalananda Tarkatirtha (Member, A.S.B.) for 'Shivakosha' for three months. Lend the manuscripts against indemnity bond for the value of Rs. 250.
- (b) The Offg. Secretary, Councils of Post-Graduate Teaching in Arts and Science, Calcutta University, for the manuscripts. Lend 'Svaramanjari' and 'Bhattikavya' against indemnity bonds for their value.
- (c) The Registrar, Calcutta University, for Bhartrahari's Vakapadiya. Lend the manuscript against indemnity bond for the value of Rs. 100.

- (d) Librarian, Imperial Library, for Durratut Taj. Lend the manuscript against indemnity bond for the value of Rs.150.
No. 6. 27-1-36.

Applications for loan of manuscripts from:—

- (a) Bombay Branch, Royal Asiatic Society, Persian 'Lama 'atu't-tahirin'. Lend the manuscript against Indemnity Bond to the value of Rs. 700.
(b) R. D. Kabyatirtha for 'Bodhasiddhi' and 'Bodhasiddhiprakasa'. Lend the two manuscripts against the general Indemnity Bond for Rs. 1,000 already executed by him.
(c) The Registrar, University of Madras, Persian Tabaqat-i-Akbar-Shahi (Nos. 115 and 116). Write to the applicant that the manuscript has already been published in the Bibliotheca Indica, if still needed, lend the manuscript against Indemnity Bonds to the value of Rs. 500 and Rs. 600 respectively.
(d) The question of the recovery of the manuscript 'Rasala dar 'Amal-i-rub-i-mujayyab' lent to Dr. Zia-ud-Din Ahmad in May 1929. The General Secretary to look into the matter and report to the next Council meeting. Sir B. L. Mitter to look into the wording of the bond form and to advise the Council.

No. 6.

31-3-36.

Applications for loan of manuscripts from:—

- (a) India Office, London (two Manuscripts). Grant loan.
(b) Curator, Bhandarkar Oriental Research Institute, Poona. (Three manuscripts). May be granted after return of previous MSS.
(c) Secretary, Post-Graduate Department in Arts, Calcutta University (one manuscript). Intimate that local loans of MSS. are no longer granted but that MS. may be consulted in the Society's rooms.
(d) Superintendent, Oriental Publication Bureau, Hyderabad, Deccan (one manuscript). Grant loan, against usual Indemnity bond for a period of three months.

No. 5.

27-4-36.

Applications for extension of the loan of manuscripts for: --

- (a) Six months from B. Bhattacharya, Oriental Institute, Baroda (MS. Ganda Vyuha). Recall, but intimate that the MS. may be applied for anew.
(b) One year from the Curator, Bhandarkar Oriental Research Institute, Poona, (MS. Mahabharata-Tatparyatika-Jnandipika). Recall, but intimate that the MS. may be applied for anew.

No. 4.

27-4-36.

Report on manuscripts lent out during the month. Record.

The General Secretary reported that five members had returned the manuscripts in response to the circular letter issued to all those who had taken manuscripts on loan from the Society, and Dr. Zia-ud-Din Ahmad had not replied.

Resolved: Request the kind offices of Sir B. L. Mitter in the matter of obtaining the manuscript or its price from Dr. Zia-ud-Din Ahmad as soon as he returns from leave.

No. 6.

25-5-36.

Applications for loan of manuscripts.

- (a) India Office Library for 'Yusuf u Zalixa'. Grant loan.
- (b) Vanamali Vedantatirtha, Calcutta, 'Ramayantika Manohara'. Unable to comply in view of the last month's Council resolution.

No. 7.

25-5-36.

Request from Ganapati Sircar, Calcutta, to be allowed to extend the period of the loan for a month and a half of 'Chandoga Parisista-tika'. Grant.

No. 8.

25-5-36.

Application for loan of manuscripts.

- (a) From Dr. R. C. Majumdar for Canda-kausika (three MSS.). Lend against fresh Indemnity bonds to the values of Rs. 100, Rs. 25 and Rs. 100 under usual conditions.
- (b) From the Bhandarkar Oriental Research Institute, Poona, for Sangitasudhakar by Bhimabhupala. Lend against Indemnity bond to the value of Rs. 300 under usual conditions.

No. 4.

22-6-36.

Application for loan of manuscripts from:

- (a) Prof. B. A. Chaugule, Lingaraj College, Belgaum, for Audarya-cintamani manuscript. (Non-member). Reject in view of the fact that the applicant is not a member.
- (b) The Bhandarkar Oriental Research Institute, Poona, for Kathasaritasagara Manuscript. The Institute be requested to return one or two manuscripts which are already with them; on receipt of which further MSS. be sent to them on loan.
- (c) The India Office Library, London, for Devi Puranam Manuscript. Lend after it has been valued by the Philological Secretary.

No. 6.

27-7-36.

Application for the extension of the periods of loan from:

- (a) The Secretary, Council of Post-Graduate Teaching in Arts, Calcutta University, up to January, 1937, of the loan of Bhattakavya and Sarvananjari Manuscripts. Grant.
- (b) Rao Bahadur K. V. Rangaswami Ayyangar, Benares, for three months more of the loan of four parts of Kṛtyakalpataru Manuscripts. Grant.

No. 7.

27-7-36.

Application from Mr. K. C. Chatterjee to be allowed to copy Manuscripts belonging to the Society. The Philological Secretary kindly to interview the applicant in connection with the arrears outstanding against him; if satisfactorily settled his request be brought up again for consideration of Council.

No. 8.

27-7-36.

Applications for loan of manuscripts from:—

- (a) The Principal, Government Sanskrit College, Benares, for Jataka Sudhakar. Lend the manuscript under usual conditions.
- (b) Dr. S. N. Das-Gupta, Calcutta, for Prakirna Prakasam. The General Secretary to use his discretion in the matter.

- (c) Bhandarkar Oriental Research Institute, Poona, for further two manuscripts and for relaxing the restriction of the number of MSS. to be lent out to them. Draw their attention to the three MSS. which are already overdue; on receipt the MSS. may be lent to them under the usual conditions.

No. 6.

30-9-36.

Application from the Bhandarkar Oriental Research Institute, Poona, for the extension of the period of the loan of three manuscripts for a further period of six months. Grant.

No. 5.

24-11-36.

Application from the Librarian, Imperial Library, for the loan of 'Tarikh-e-Herat' manuscript belonging to the Society. Grant.

No. 6.

24-11-36.

Application for the loan of 'Mathnawiyyat-i-Nami' MS. from the Librarian, Punjab University Library, Lahore. Grant against Indemnity bond to the value of Rs. 500.

No. 2.

17-12-36.

MANUSCRIPTS—

Report purchase of manuscripts. Approve.

No. 2.

27-1-36.

Report purchase of Tantra Manuscripts. Approve.

No. 2.

24-2-36.

The question of recovery of the manuscript 'Rasala dar 'Amal-i-rub-i-mujayyab' loaned to Dr. Zia-ud-Din Ahmad. One more letter to be written. If no reply be received within two weeks to be followed by a lawyer's letter.

No. 2.

27-4-36.

Statement of loans of manuscripts outstanding beyond three or more years. Recall all MSS. retained beyond the periods specified in the bonds, taking into account extensions granted, and drawing attention to the regulations regarding the loans of MSS.

Further resolved that a MSS. lending regulations revision committee be formed consisting of Col. Barwell, the two Philological Secretaries and the General Secretary, to draft a set of revised rules to be placed before the next meeting of the Council.

Also resolved that in future residents of Calcutta shall not except for special reasons be permitted to borrow MSS. from the Society's library but shall be permitted to consult them in the Society's rooms.

No. 3.

27-4-36.

Report about the Ica Famulus Camera. Record with thanks.

No. 2.

25-7-36.

The question of making arrangements for photographing manuscripts by the Society's Ica Famulus Camera. Record.

No. 4.

24-11-36.

Permanent loan to the Society of Sanskrit MSS. The General Secretary reported receipt of a letter, dated the 15th November, 1936, from the Department of Education, Health and Lands, conveying the consent of the Government of India to the permanent loan to the Society of the manuscripts in the Archaeological Section, Indian Museum, Calcutta. Record.

No. 14.

24-11-36.

MEETINGS—

Recommendation Finance Committee No. 3 of 23-1-36. Society's Monthly General Meeting Tea expenditure. Recommend that tea be provided to General Meetings and Council Meetings and the cost debited to the Society. Council order: Council subscriptions to be invited to meet expenditure for Council tea. The cost for the General Meeting tea to be debited to the Society.

No. 8.

27-1-36.

The question of having a Monthly Meeting in September. (The Monthly Meeting which was arranged for August had been cancelled owing to the death of Col. Knowles). Meeting to be held; programme of the August meeting to be followed.

No. 9.

25-8-36.

Meeting programme, November Monthly Meeting. The General Secretary to arrange the meeting programme by the inclusion of any suitable items.

No. 15.

30-9-36.

MEMBERSHIP—

List of members in arrears of subscriptions. (23 names altogether). Apply rules.

No. 15.

25-5-36.

Report death of Col. Knowles. Record. Announce in the next Monthly Meeting. An obituary notice to be printed.

No. 3.

25-8-36.

Remittance from Raja K. Deb, Rai Mahasai, who was removed under Rule 38, in 1934, for regularising his membership. The matter to be settled in accordance with the rules in consultation with the Honorary Treasurer.

No. 5.

30-9-36.

Renoval of members (absent in Europe for over three years) under Rule 40. (7 names). Apply rules.

No. 12.

24-11-36.

Removal of names under Rule 38. (1) Shiv Bandhu Pande Rs.72; (2) G. T. Sitling Rs.66; (3) J. P. Shukla Rs.72. Apply Rules.

No. 10.

17-12-36.

MEMORIALS—

Appointment of Advisory Board for the Annandale Memorial Medal. The board to consist of Dr. B. S. Guha and the Ex-officio members (Anthropological Secretary, Biological Secretary, Medical Secretary and the General Secretary).

No. 13.

30-9-36.

Recommendations of the Annandale Memorial Medal Advisory Board. Accept.

No. 4.

17-12-36.

MISCELLANEOUS—

Recommendations of the Finance Committee of 23-1-36. Accept with the following modifications. Council subscriptions to be invited to meet expenditure of Council tea. The cost of the General Meeting tea to be debited to the Society.

No. 8.

27-1-36.

Application from Mohammed Yakoob that the Society may kindly let out to him a piece of vacant land on the south-eastern side of the Society's premises for opening an aerated water shop. Reject.

No. 14.

25-5-36.

Letter from the Asst. Private Secretary to H. E. the Governor of Bengal fixing the date for unveiling the portrait of the late Sir C. C. Ghose and asking for a provisional programme. The provisional programme of the ceremony to be as follows:—

- (1) The General Secretary will introduce Mr. D. C. Ghose, brother of the late Sir C. C. Ghose, a past President of the Society, in a few appropriate words.
- (2) Mr. D. C. Ghose will then present the portrait to the Society after a short speech.
- (3) The General Secretary will then receive the portrait formally after thanking Mr. D. C. Ghose, and respectfully request His Excellency to unveil it.
- (4) His Excellency will address the meeting and unveil the portrait.
- (5) Vote of thanks to His Excellency by the General Secretary for kindly unveiling the portrait.

The General Secretary reported that Mr. D. C. Ghose had written to him that His Excellency has accepted Mr. Ghose's invitation to tea with the guests in the rooms of the Society after the unveiling ceremony is over.

Resolved: That the guests should be the resident members of the Society as well as Mr. Ghose's friends and relatives who would be invited by the Council to be present at the unveiling ceremony; Mr. Ghose to make all necessary arrangements for tea including expenses.

No. 5.

25-5-36.

Letter of thanks from the family of the late Sir R. N. Mookerjee. Record.

No. 1.

22-6-36.

Report acceptances to the Society's invitation to the unveiling ceremony of the portrait of the late Sir C. C. Ghose. Record.

No. 4.

27-7-36.

The question of having a name plate at the gate. The General Secretary to arrange.

No. 14.

27-7-36.

Letter of thanks from Dr. B. Sahni for the congratulation sent to him on his being elected a Fellow of the Royal Society. Record.

No. 15.

27-7-36.

Report in the local press about the unveiling ceremony and At Home in the Society's Rooms on August 14th. Record.

No. 1.

25-8-36.

Report about repairs done to the frames containing photographs of all the past Presidents of the Society. Record.

No. 11.

25-8-36.

Letter from the Honorary Secretary, Himalayan Club, enquiring whether the Society would let out a corner room for the use of their club. Unable to rent out the corner room in view of the fact that it may be needed for the Society's own use.

No. 3.

30-9-36.

Letter of thanks from Dr. H. E. Stapleton. Record.
No. 2. 24-11-36.

NATIONAL INSTITUTE OF SCIENCES OF INDIA—

Letter of thanks from the National Institute of Sciences of India.
Record.
No. 1. 27-1-36.

PATRON—

Letter to H. E. the Viceroy inviting him to accept the Patronship of the Society. Await instruction from the President; afterwards write to the Military Secretary to H. E. the Viceroy accordingly.
No. 4. 25-5-36.

Reply to Private Secretary to H. E. the Viceroy regarding the patronage of the Society. Wait for reply from the President.
No. 2. 22-6-36.

Letter of thanks to H. E. the Viceroy for the acceptance by him of office of a Patron of the Society. Record and announce in the Monthly Meeting.
No. 1. 27-7-36.

PROVIDENT FUND—

Recommendation Finance Committee No. 7 of 23-1-36. Application from S. K. Roy for a loan of Rs.250 from the Provident Fund. Grant, to be returned in monthly instalments of Rs. 10 at 3% per annum. Accepted by Council.
No. 8. 27-1-36.

Recommendation Finance Committee No. 8 of 23-1-36. Application from R. K. Iyer for a loan of Rs.250 from the Provident Fund. Grant, to be returned in monthly instalments of Rs.20 at 3% per annum. Accepted by Council.
No. 8. 27-1-36.

Recommendation Finance Committee No. 4(b) of 21-2-36. Application for a loan of Rs.80 from the Provident Fund by B. B. Mukherjee. Grant as far as rules allow, subject to the Honorary Treasurer's approval. Interest at 3% per annum. Accepted by Council.
No. 5. 24-2-36.

Recommendation Finance Committee No. 3 of 24-4-36. Application from K. Krishnamurti to be allowed to join the Society's Provident Fund. Decline. Accepted by Council.
No. 6. 27-4-36.

PUBLICATIONS—

Centenary Volume. Record.
No. 15. 27-1-36.

Letter from the President, Forest Research Institute, Dehra Dun, asking for the supply of the science part of the Journal only and for the corresponding reduction in subscription rates. Reject with appropriate explanation.
No. 5. 31-3-36.

Recommendations of the Publication Committee. Accept. Publish Sayeed-ud-din's paper after having been edited by the Biological Secretary in consultation with Col. Chopra and Mr. Calder.

No. 8.

22-6-36.

Recommendation Publication Committee No. 6 of 24-11-36. That Sir U. N. Brahmachari be co-opted a member of the Publication Committee for the remainder of the year. Accepted by Council.

No. 10.

24-11-36.

REPRESENTATION—

Representation of the Society at a meeting at Government House on March 14th in commemoration of His late Majesty King George V. Record.

No. 1.

31-3-36.

REQUESTS—

Request for the use of the Society's Hall by the Himalayan Club. Approve.

No. 3.

27-1-36.

Request from the Joint Philological Secretary that the Society may purchase a number of biographical works for the Arabic and Persian Manuscript department, at a total cost of Rs.65-7-0. Purchase.

No. 13.

31-3-36.

Request by the Principal, Oriental College, Lahore, to insert an advertisement sheet in the next issue of the Journal. Grant against a nominal charge of Rs.10.

No. 12.

27-4-36.

Request from Ganapati Sircar, Calcutta, to be allowed to extend the period of the loan for a month and a half of 'Chandoga Parisista-tika'. Grant.

No. 8.

25-5-36.

Request for the use of the Society's Committee room for a Committee Meeting of the National Institute of Sciences of India on Saturday, the 27th June, at 5 p.m. Grant.

No. 10.

22-6-36.

Request from the Theosophical University Press, California, to send frequently works relating to Oriental studies published by the Society for reviewing in their 'Forum'. Supply them with price lists of the Society's publication.

No. 11.

22-6-36.

Request for the use of the Society's Lecture Hall by the Mining and Geological Institute of India. Record; General Secretary's action approved.

No. 2.

27-7-36.

Request from Messrs. G. W. Lawrie & Co., Lucknow, to be allowed to photograph two paintings belonging to the Society. Grant on condition that copies are supplied free to the Society and due acknowledgment made in the publication.

No. 3.

27-7-36.

Letter from Dr. Bains Prashad requesting sympathetic consideration of a request from the Field Museum of Natural History. Grant on exchange basis. The Field Museum of Natural History be requested to send us the back numbers of their publications which are lacking in the set, viz.:

- (a) Botanical Series from 1913-1936;
- (b) Zoological Series from 1913-1936;
- (c) Geological Series from 1913-1936;
- (d) Ornithological Series from 1906-1936;

in exchange for the back numbers of the Society's Proceedings and Journal as far as available.

The Field Museum be further requested to continue sending to the Society the above series without any break, in addition to the Anthropological and Report Series which are being received from them in exchange.

No. 5.

27-7-36.

Request for the use of the Society's Committee room and Lecture Hall on August 29th and 30th by the National Institute of Sciences of India. Grant.

No. 5.

25-8-36.

Request for an exchange of the Society's publications with the Trivandrum Sanskrit Series from the Curator, Publication of Oriental Manuscripts, Trivandrum. Exchange the Sanskrit publications of the Society with the Trivandrum Sanskrit Series.

No. 2.

30-9-36.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant.

No. 1.

17-12-36.

ROYAL CHARTER—

Letter from the Under Secretary to the Government of Bengal communicating that His Majesty has been pleased to grant permission to use the title 'Royal' by the Society. Record and announce in the next Monthly Meeting; inform all the members of the change of name; thanks of the Council to be communicated to His Excellency the Governor of Bengal for the kind help rendered by him in this matter, an appropriate letter be sent to the Government of Bengal conveying the thanks of the Society to His Majesty the King Emperor, for this great honour bestowed upon the Society.

No. 2.

25-5-36.

RULES AND REGULATIONS—

Statement of loans of manuscripts outstanding beyond three or more years. Recall all MSS. retained beyond the periods specified in the bonds, taking into accounts extensions granted, and drawing attention to the regulations regarding the loans of MSS.

Further resolved that a MSS. lending regulations revision committee be formed consisting of Col. Barwell, the two Philological Secretaries and the General Secretary, to draft a set of revised rules to be placed before the next meeting of the Council.

Also resolved that in future residents of Calcutta shall not except for special reasons be permitted to borrow MSS. from the Society's library but shall be permitted to consult them in the Society's rooms.

No. 3.

27-4-36.

STAFF—

Recommendation Finance Committee No. 4 of 23-1-36. Application from the Society's staff for the Indian Science Congress Bonus. Decline. Accepted by Council.

No. 8.

27-1-36.

Finance Committee No. 5 of 23-1-36. Remuneration to staff working on holidays. Recommendation: Hold over pending collection of information concerning practices in various offices. Accepted by Council.

No. 8.

27-1-36.

Recommendation Finance Committee No. 3(d) of 16-12-36. Increment of Salaries to Staff. The Honorary Treasurer and the General Secretary to put up the proposals; menials to get their usual increment. Accepted by Council.

No. 6.

17-12-36.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Royal Asiatic Society of Bengal,
On the 31st December, 1936.**

PATRONS OF THE ROYAL ASIATIC SOCIETY OF BENGAL.

1936	..	.. H.E. the Most Hon'ble the Marquess of Linlithgow, P.C., Kt., G.M.S.I., G.M.I.E., O.B.E., D.L., T.D., Viceroy and Governor-General of India.
1932	..	.. H.E. the Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.
1910-1916	..	Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O., I.S.O.
1917-1922	..	Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1922-1927	..	Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	..	Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	..	Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.
1931-1936	..	Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1936.

Elections Annual Meeting.

President

H.E. The Rt. Hon'ble Sir John Anderson, P.C., G.C.B., G.C.I.E.

Vice-Presidents.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D., Ph.D., F.A.S.B.

Lt.-Col. R. Knowles, C.I.E., B.A. (Cantab.), M.R.C.S., L.R.C.P., I.M.S., F.A.S.B.

The Hon'ble Sir B. L. Mitter, K.C.S.I., Kt., Barrister-at-Law.

Secretaries and Treasurer

General Secretary:—Johan van Manen, Esq., C.I.E., F.A.S.B.

Treasurer:—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S., F.R.S.E., F.A.S.B.

Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit. (London).

Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi M. Hidayat Hosain, Khan Bahadur, Ph.D., F.A.S.B.

Natural History Secretaries. $\left\{ \begin{array}{l} \text{Biology:—Baini Prashad, Esq., D.Sc., F.Z.S.,} \\ \text{F.R.S.E., F.A.S.B.} \\ \text{Physical Science:—J. N. Mukherjee, Esq., D.Sc.} \\ \text{(Lond.), F.C.S. (Lond.).} \end{array} \right.$

Anthropological Secretary:—Rai Bahadur Ramaprasad Chanda, B.A., F.A.S.B.

Medical Secretary:—Lt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S., F.A.S.B.

Library Secretary:—A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E.

Other Members of Council.

Percy Brown, Esq., A.R.C.A., F.A.S.B.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

K. C. Mahindra, Esq., B.A. (Cantab.).

M. Mahfuz-ul Haq, Esq., M.A.

APPOINTMENTS, TRANSFERS, AND OTHER CHANGES DURING THE YEAR.

Sir U. N. Brahmachari, Acting General Secretary, *vice* Mr. Johan van Manen, absent, from 16-5-36 to 16-11-36.

Mr. Percy Brown, Acting Library Secretary, *vice* Dr. A. M. Heron, absent, from 1-8-36 to 27-11-36.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora, absent, from 24-1-36 to 7-2-36; from 16-11-36 to 24-11-36 and from 16-12-36 to 31-12-36.

H.E. Sir John Anderson, absent from 8-4-36 to 1-8-36 and from 1-9-36 to 3-11-36.

Sir David Ezra, absent from 16-4-36 to 1-11-36.

Sir B. L. Mitter, absent from 15-4-36 to 14-8-36.

Lt.-Col. R. Knowles, died on 3-8-36.

Dr. B. Prashad, absent from 20-5-36 to 1-7-36.

Dr. J. N. Mukherjee, absent from 19-10-36 to 14-11-36.

Dr. M. H. Hosain, absent from 25-9-36 to 25-10-36.

R.B. R. Chanda, absent from 1-4-36 to 10-5-36

Bt.-Col. R. N. Chopra, absent from 15-4-36 to 15-8-36.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL ELECTED FOR THE YEAR 1937.

President.

H.E. The Rt. Hon'ble Sir John Anderson, P.C., G.C.B., G.C.I.E.

Vice-Presidents.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D.,
Ph.D., F.R.A.S.B.

A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E.,
F.R.A.S.B.

Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E.,
F.R.A.S.B.

Treasurer :—S. L. Hora, Esq., D.Sc. (Edin.), F.Z.S., F.R.S.E.,
F.R.A.S.B.

Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit.
(London), F.R.A.S.B.

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlawi
M. Hidayat Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.

Natural History Secretaries. { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.R.A.S.B.
Physical Science :—J. N. Mukherjee, Esq.,
D.Sc. (Lond.), F.C.S. (Lond.).

Anthropological Secretary :—Rai Bahadur Ramaprasad Chanda,
B.A., F.R.A.S.B.

Medical Secretary :—Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B.,
I.M.S., F.R.A.S.B.

Library Secretary :—M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A., F.R.A.S.B.

K. C. Mahindra, Esq., B.A. (Cantab.).

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

B. S. Guha, Esq., M.A., Ph.D. (Harvard).

W. D. West, Esq., M.A. (Cantab.).

ORDINARY MEMBERS.

R=Resident. N=Non-Resident. F=Foreign. A=Absent. L=Life.

An Asterisk is prefixed to names of Ordinary Fellows of the Society.

Date of Election.		
5-4-22	R	Abdul Ali , ABUL FAIZ MUHAMMAD, M.A., M.B.A.S., F.R.S.L., F.R.G.S., F.R.H.S. 3, Turner Street, Calcutta.
7-3-27	R	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZII (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Islamia College</i> . 19, Wellesley Square, Calcutta.
2-11-25	N	Acharya , PARAMANANDA, B.SC., <i>Archæological Scholar</i> . Mayurbhanj State, Baripada.
2-3-21	R	Agharkar , SHANKAR PURUSHOTTAM, M.A., PH.D., F.L.S., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University</i> . 35, Ballygunge Circular Road, Calcutta.
3-2-36	N	Ahmad , ALFAZUDDIN KHAN BAHADUR, M.A., <i>Retired Assistant Director of Public Instruction, Bengal</i> . Dhalhora, P.O. Tamluk, Midnapur.
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan</i> . 2, Andrabi, Kabul, Afghanistan.
6-6-17	N	Aiyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A., <i>Late Director of Public Instruction, Travancore; Principal, Central Hindu College, Hindu University</i> . Benares.
6-12-26	N	* Aiyangar , S KRISHNASWAMI, M.A., PH.D., M.B.A.S., F.R.HIST.S., F.R.A.S.B., <i>Rajasevasakta, Professor, University of Madras</i> . "Sripadam", 143, Brodies Road, Mylapore, Madras, S.
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti</i> . Hoti, N.-W.F.P.
6-1-36	R	Anderson , HIS EXCELLENCY THE RT. HON'BLE SIR JOHN, P.C., G.C.B., G.C.I.E., <i>Governor of Bengal</i> , Calcutta.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. c/o The Royal Empire Society, Northumberland Avenue, London, W.C.
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant</i> . Trueloves, Ingates-tone, Essex, England.
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd.</i> Norton Building, Lalbazar, Calcutta.
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., I.E.S., <i>Professor of Zoology</i> . Royal Institute of Science, Mayo Road, Fort, Bombay.
3-3-14	L	* Bacot , J., F.R.A.S.B. Boulevard Saint-Antoine, 61, Versailles Seine-et-Oise, France.
7-9-36	R	Bagchi , KUMAR NATH, RAI BAHADUR, B.SC., M.B. (CAL), D.T.M. (CAL. & L'POOL), F.I.C. (LOND.), <i>Chemical Examiner to the Government of Bengal</i> . Medical College, Calcutta.

Date of Election.		
1-11-26	R	Bagchi, PROBODH CHANDRA, M.A., DR.-ES-LETTRES (PARIS), <i>Member of the A.S. of Paris; Lecturer, Calcutta University.</i> 9, Rustomjee Street, Ballygunge, Calcutta.
1-3-26	R	Bagnall, JOHN FREDERICK, B.SC., A.M.I.MECH.E., A.M.I.E.E., A.M.INST.C.E., <i>Consulting Engineer, Messrs. Macneill & Co.</i> 2, Fairlie Place, Calcutta.
2-4-24	N	Bahl, K. N., D.SC., D.PHIL., <i>Professor of Zoology, Lucknow University.</i> Badshabagh, Lucknow.
7-3-27	A	Bake, A. A., <i>Doctorandus Or. Lit.</i> P.O. Santiniketan. (c/o The Kern Institute, Leiden, Holland.)
6-2-18	N	Banerjee, NARENDRA NATH, M.I.P.O.E.E., A.M.I.E., <i>Director of Telegraphs, Bombay Circle,</i> Bombay.
5-3-24	R	Banerjee, P. N., M.A. (CANTAB.), A.M.I.E., F.O.U., <i>Civil Engineer.</i> 12, Mission Row, Calcutta.
1-11-26	N	Barhut, THAKUR KISHORESINGH JI, <i>State Historian of Patiala Government.</i> History and Research Department, Patiala
3-8-31	N	Barua, THE HON'BLE KANAK LAL, RAI BAHADUR, B.L., F.R.S.E., <i>President, Kamarupa Anusundhan Samiti, Minister to the Government of Assam.</i> Rosaville, Nangthymai, Shillong, Assam.
3-12-23	R	Barwell, N. F., LT.-COL. (RETD.), M.C., M.A., <i>Bar-at-Law.</i> First Floor, 10, Middleton Street, Calcutta (and) Aylmer-ton House, Aylmerton, Norfolk, England.
4-3-29	R	Basu, THE HON'BLE BEJOY K., C.I.E., M.A., B.L., <i>Solicitor, High Court.</i> 50, Goaltule Road, Bhawanipore, Calcutta.
3-12-24	R	Basu, JATINDRA NATH, M.A., M.L.C., <i>Solicitor.</i> 14, Baloram Ghose Street, Calcutta.
1-3-26	R	Basu, NARENDRA KUMAR, M.L.C., <i>Advocate, High Court.</i> 12, Ashu Biswas Road, Bhawanipore, Calcutta
2-1-28	R	Basu, NARENDRA MOHAN, M.SC., <i>Professor of Physiology.</i> 63, Hindusthan Park, Ballygunge, Calcutta.
30-9-35	N	Basu, SATYENDRA KUMAR, M.SC., <i>Extra Assistant Conser-vator of Forests.</i> Clover Cot, Darjeeling.
5 2-34	N	Bates, WILLIAM HAYES, <i>Ceramic Engineer,</i> Burn & Co., Ltd. Ranigunj, Dt. Burdwan.
7-7-09	N	Bazaz, RANGNATH KHEMRAJ, <i>Proprietor, Shri Venkatesh-war Press.</i> 7th Khetwadi, Bombay No. 4.
7-5-34	R	Bent, WILLIAM ANTONY, <i>Assistant, Messrs. George Hender-son & Co., Ltd.</i> 101/1, Clive Street, Calcutta.
4-3-25	R	Benthall, SIR EDWARD C., KT., <i>Merchant.</i> 37, Ballygunge Park, Calcutta.
7-4-09	L	*Bentley, CHARLES A., C.I.E., M.B., D.P.H., D.T.M. & H., F.R.A.S.B., <i>Professor of Hygiene.</i> University of Egypt, Cairo.
6-1-36	N	Berkeley-Hill, OWEN ALFRED ROWLAND, M.A., M.D., B.CH. (OXON), M.R.C.S. (ENGLAND), D.T.M. (LONDON), LT.-COL., I.M.S. (RETD.), 'Station View', Ranchi. B. & O.
4-6-28	N	Bhadra, SATYENDRA NATH, RAI BAHADUR, M.A., <i>Principal, Jaqannath Intermediate College.</i> Nayabazar, Dacca.
1-8-17	R	*Bhandarkar, DEVADATTA RAMKRISHNA, M.A., PH.D., F.R.A.S.B. 10, Ritchie Road, Ballygunge, Calcutta.
5-4-26	N	Bhatia, M. L., M.SC., <i>Lecturer in Zoology.</i> Lucknow Uni-versity, Lucknow.
1-2-22	N	Bhattacharya, VIDHUSHEKHARA, PANDIT, <i>Principal, Vidyabhavana.</i> Visvabharati, Santiniketan, Birbhum.
7-7-24	L	Bhattacharyya, BINOYTOSH, M.A., PH.D., RAJARATNA, <i>General Editor, Gaekwad's Oriental Series, and Librarian, Oriental Collections, Baroda State.</i> Baroda.

Date of Election		
2-4-28	R	Bhattacharyya , NIBARAN CHANDRA, M.A., <i>Professor of Physiology, Presidency College</i> . 19, Hindusthan Road, Ballygunge, Calcutta.
4-6-28	N	Bhattachali , NALINI KANTA, M.A., PH.D., <i>Curator, Dacca Museum</i> . Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., <i>Advocate, Calcutta High Court</i> . 24A, Ray Bagan Street, Calcutta.
5-2-34	N	Bhuyan , SURYYA KUMAR, RAI BAHADUR, M.A., B.L., A.E.S., <i>Honorary Provincial Director of Historical and Antiquarian Studies, Assam; Professor, Cotton College</i> . Gauhati, Assam.
5-3-28	R	Biswas , CHARU CHANDRA, C.I.E., M.A., B.L., <i>Advocate, High Court</i> . 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	L	Biswas , KALIPADA, M.A. Royal Botanic Garden, Sibpur, Howrah.
3-1-27	N	Bivar , HUGH GODFREY STUART, I.C.S., <i>District and Sessions Judge</i> . Murshidabad.
2-12-35	N	Blakiston , J. F., <i>Director-General of Archaeology</i> . New Delhi.
1-2-93	L	*Bodding , REV. P. O., M.A. (CHRIST.), F.R.A.S.B. Gulleraasveien 27, Vettakollen, Oslo, Norway.
4-11-35	A	Bor , N. L., M.A., D.SC., F.L.S., I.F.S. c/o The Conservator of Forests, Shillong, Assam.
6-3-95	R	*Bose , SIR JAGADIS CHANDRA, KT., C.S.I., C.I.E., F.R.S., M.A., D.SC., F.R.A.S.B. Bose Institute, 91, Upper Circular Road, Calcutta.
6-7-25	R	Bose , MANMATHA MOHAN, M.A., <i>Professor Emeritus, Scottish Church College</i> . 19, Gokul Mitra Lane, Hatkhola, Calcutta.
2-3-31	N	Bose , SUDHANSU KUMAR, B.SC. (CAL.), A.R.S.M., B.SC. (MINING) (LONDON), <i>Professor of Mining and Surveying</i> . Indian School of Mines, Dhanbad.
2-11-36	R	Bothra , SUBHKARAN, B.A., <i>Landholder and Student</i> . 3, Vivekananda Road, Calcutta.
4-5-31	A	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., <i>Director of Public Instruction, Bengal</i> . 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., <i>Adviser in Languages and Secretary to the Board of Examiners</i> . Army Headquarters, Simla.
3-12-34	R	Brahmachari , PHANINDRA NATH, M.SC., M.B. 82/3, Cornwallis Street, Calcutta.
1-1-08	L	*Brahmachari , SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.R.A.S.B. 82/3, Cornwallis Street, Calcutta.
7-11-27	N	Brahmachary , SARAT CHANDRA, RAI BAHADUR, M.A., B.T. Kasba Road, Ballygunge, P.O. Dhakuria, 24-Pergs.
6-1-36	R	Brocke , ALFRED G., D.SC. (DOCTOR PHILOSOPHIÆ NATURALIS) (JENA), <i>Branch Manager, Pharmaceutical Department, 'Bayer'</i> . 11, Store Road, Ballygunge, Calcutta.
3-7-07	L	*Brown , JOHN COGGIN, O.B.E., D.SC., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.R.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
6-10-09	R	*Brown , PERCY, A.R.C.A., F.R.A.S.B., <i>Curator, Victoria Memorial</i> . Calcutta.
8-1-96	F	*Burn , SIR RICHARD, KT., C.S.I., F.R.A.S.B. 9, Staverton Road, Oxford, England.

Date of Election.		
3-12-34	N	Burt, Sir BRYCE CHUDLEIGH, KT., O.I.E., M.B.E., B.Sc., I.A.S., <i>Agricultural Expert, Imperial Council of Agricultural Research.</i> 1, York Road, New Delhi.
2-4-13	R	Calder, CHARLES CUMMING, B.Sc., F.L.S., <i>Superintendent, Royal Botanic Garden.</i> Sibpur, Howrah.
4-11-29	R	Campbell, Sir GEORGE R., KT., <i>Partner, Messrs. Mackinnon Mackenzie & Co.</i> 16, Strand Road, Calcutta.
7-2-27	R	Captain, DARA MANEKSHAW, Merchant. 1, Corporation Street, Calcutta.
3-2-36	R	Catto, Sir THOMAS S., BART., <i>Merchant and Banker, Andrew Yule & Co., Ltd.</i> 8, Clive Row, Calcutta.
1-9-20	R	Chakladar, HARAN CHANDRA, M.A. 28/4, Srimohan Lane, Kalighat, Calcutta.
7-3-32	R	Chakraborty, KHIRODE BEHARI, <i>Engineer and Manufacturer.</i> 7, Hindusthan Park, P.O. Ballygunge, Calcutta.
4-7-27	R	Chakravarti, CHINTAHARAN, M.A., <i>Lecturer, Bethune College.</i> 28/3, Sahanager Road, Kalighat, Calcutta.
3-2-30	N	Chakravarti, M. N., M.Sc., A.T.S. 'Gitanjali'. 15, Lodge Road, Lahore.
5-6-33	N	Chakravarti, SUSIL KUMAR, M.A., <i>Zemindar.</i> Cooch Behar (Cooch Behar State).
3-1-27	N	Chakravarty, NIRANJANPRASAD, M.A., PH.D. (CANTAB.), <i>Government Epigraphist.</i> Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
6-1-30	A	Chakraverti, SHRISH CHANDRA, B.L., <i>Attorney-at-Law, High Court, Calcutta.</i> 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda, RAMAPRASAD, RAI BAHADUR, B.A., F.R.A.S.B. P. 403, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman, JOHN ALEXANDER, <i>Librarian, Rampur State Library.</i> Rampur.
7-5-28	R	Chatterjea, Sir NALINI RANJAN, KT., M.A., B.L., <i>Retired Judge and sometime acting Chief Justice, Calcutta.</i> 91A, Harish Mukerjee Road, Bhawanipore, Calcutta.
7-2-27	R	Chatterjee, ASHOKE, B.A. (CAL.), B.A. (CANTAB.), <i>Editor, 'Welfare'.</i> 91, Upper Circular Road, Calcutta.
27-10-15	F	Chatterjee, Sir ATUL CHANDRA, K.O.I.E., K.C.S.I., <i>Late High Commissioner for India.</i> Withdean. Cavendish Road, Weybridge, Surrey, England.
2-3-36	R	Chatterjee, MANOMOHAN, B.Sc. (CAL.), A.R.C.S., D.I.C., PH.D. (LOND.), <i>Professor of Geology, Presidency College.</i> 170/2, Lower Circular Road, P.O. Entally, Calcutta.
1-10-20	R	Chatterjee, NIRMAL CHANDRA. 52, Haris Mukerjee Road, Bhawanipore, Calcutta.
4-7-27	R	Chatterjee, PATITPABON, M.A., B.L., <i>Vakil, High Court.</i> 84, Harrison Road, Calcutta.
3-12-34	R	Chatterjee, SISIR CHANDRA, M.D. (EDIN.), M.R.C.P. (EDIN.), D.P.H. (EDIN.), <i>Chief Medical Officer, E.B. Ry.</i> 3, Koilaghat Street, Calcutta.
5-1-31	R	Chatterji, DURGACHARAN, M.A., <i>Lecturer in Sanskrit, Bethune College.</i> P. 317, Jatin Das Road, Kalighat, Calcutta.
4-6-34	N	Chatterji, BIJAN RAJ, PH.D. (London), D.LITT. (PUNJAB), <i>Professor of History, Meerut College.</i> Meerut.
7-5-28	R	Chatterji, KEDAR NATH, B.Sc. (LONDON), A.E.O.S. (LONDON). 43, Wellesley Street, Calcutta.
7-6-11	R	Chatterji, KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 6/1, Wood Street, Calcutta.

Date of Election.		
6-8-24	R	*Chatterji, SUNITI KUMAR, M.A. (CAL.), D.LIT. (LONDON), F.R.A.S.B., <i>Khaira Professor of Linguistics, Calcutta University</i> . 'Sudharma', 16, Hindusthan Park, (off Rasbihari Avenue East End), Ballygunge, Calcutta.
2-3-36	R	Chatterji, MRS. TUHINIKĀ, M.A., KĀVYATĪRTHA, <i>Research Scholar, Examiner, Calcutta University</i> . 5, Wood Street, Calcutta.
5-11-24	R	Chattopadhyay, K. P., M.SC., <i>Education Officer, Corporation of Calcutta</i> . 55/1, Old Ballygunge 1st Lane, Calcutta.
2-11-25	N	Chattopadhyaya, KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit</i> . Allahabad University, Allahabad.
1-4-14	R	Chaudhuri, GOPAL DAS. 32, Beadon Row, Calcutta.
4-11-35	R	Chaudhuri, SACHINDRA NATH, <i>Barrister-at-Law</i> . 52, Ballygunge Circular Road, Calcutta.
5-12-23	R	Chopra, B. N., D.SC., F.L.S., <i>Assistant Superintendent, Zoological Survey of India</i> . Indian Museum, Calcutta.
1-2-22	R	*Chopra, R. N., C.I.E., M.A., M.D. (CANTAB.), BREVET-COL., I.M.S., F.R.A.S.B., <i>Professor of Pharmacology</i> . School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.
5-12-27	L	Chowdhury, SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road, Calcutta.
2-4-28	R	Chowdhury, RAI JATINDRANATH, <i>Zemindar</i> . 36, Russa Road, Tollygunge, Calcutta.
3-7-07	L	*Christie, WILLIAM ALEXANDER KYNOCH, B.SC., PH.D., M.INST.M.M., F.R.A.S.B. c/o The Lloyds Bank, 6, Pall Mall, London, S. W. 1.
3-11-09	A	*Christophers, SIR SAMUEL RICKARD, KT., C.I.E., O.B.E., F.R.S., F.R.A.S.B., M.B., LT.-COL., I.M.S. 80, Onslow Gardens, South Kensington, London, S.W. 7.
1-9-15	R	Cleghorn, MAUDE LINA WEST (MISS), F.L.S. F.E.S. 43, Moulahat Road, Calcutta.
2-2-31	A	Clough, JOHN, <i>Barrister-at-Law</i> . 17, Store Road, Ballygunge, Calcutta.
5-5-30	F	Cooper, G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
3-9-34	R	Couchman, BRIGADIER HAROLD JOHN, D.S.O., M.C., <i>Surveyor-General of India</i> . Survey of India, 13, Wood Street, Calcutta.
6-11-33	R	Coulson, ARTHUR LENNOX, D.SC. (MELB.), D.I.C., F.G.S. <i>Geological Survey of India</i> , 27, Chowringhee, Calcutta.
4-11-29	L	*Cotter, GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.R.A.S.B. 'Fallowfield', Manor Road, Penn., Bucks., England.
5-3-34	R	Craddock, SIR WALTER MERRY, KT., D.S.O., COLONEL, M.C., <i>Stock Broker</i> . Bengal Club, Calcutta.
25-8-87	R	Criper, WILLIAM RISDON, F.C.S., F.I.C., A.R.S.M. <i>Konnagar</i> .
2-11-25	A	Crookshank, HENRY, B.A., B.A.I. (DUBLIN), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-12-36	R	Daga, MADANGOPAL, <i>Merchant and Landlord</i> . 374, Upper Chitpore Road, Calcutta.
7-3-32	R	Darbari, M. D., <i>Incorporated Accountant, S.B. Billimoria & Co., Ltd.</i> 100, Clive Street, Calcutta.
4-3-25	R	Das, AJIT NATH, RAI BAHADUR, M.B.A.S., F.Z.S., <i>Zemindar</i> . 24, South Road, Entally, Calcutta.

Date of Election.		
3-12-24	R	Das, SURENDRA NATH, M.B., <i>Medical Practitioner</i> . 67, Nimtala Ghat Street, Calcutta.
6-9-22	R	Das-Gupta, SURENDRA NATH, M.A., PH.D., I.E.S., <i>Principal, Sanskrit College</i> . 1, College Square, Calcutta.
1-3-26	R	Datta, HIRENDRA NATH, M.A., B.L., <i>Solicitor, High Court</i> . 139, Cornwallis Street, Calcutta.
3-6-25	N	Datta, S. K., B.A., M.B., CH.B. (EDIN.), <i>Principal, Forman Christian College</i> . Lahore.
4-6-34	R	Daver, NANABHOY SORABJI, B.A. (HONS.), <i>Mercantile</i> . c/o Parke, Davis & Co., 5, Dhurrumtollah Street, Calcutta.
6-8-24	L	Davies, L. M., LT.-COL., LATE R.A., M.A., F.R.S.E., F.R.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	R	De, J. C., M.B., LT.-COL., I.M.S., <i>Superintendent, Campbell Medical School</i> . 135, Lower Circular Road, Calcutta.
19-9-95	L	De, KIRAN CHANDRA, C.I.E., B.A., I.C.S. (RETD.), <i>Manager, Nawab Bahadur of Murshidabad Estate</i> . Lalbagh, Murshidabad.
5-12-32	N	Deb, SUSHIL KUMAR, B.A. Sheikghat, P.O. Sylhet, Dt. Assam.
5-12-27	L	Dechhen, H.H. MAHARANI KUNZANG, <i>Maharani of Sikkim</i> . Gangtok, Sikkim.
5-5-30	N	Deo, SIR PRATAP CHANDRA BHANJ, K.C.I.E., <i>Maharajah, Ruler of Mayurbhanj State</i> . P.O. Baripada, Mayurbhanj, B.N.R.
5-11-34	R	Dey, MUKUL, A.R.C.A. (LOND.), M.O.S.E. (U.S.A.), F.R.S.A., etc., <i>Principal, Govt. School of Art; Officer in charge, Art Section; Keeper of Govt. Art Gallery; Trustee, Indian Museum</i> . 28, Chowringhee, Calcutta.
4-5-10	L	Dhavlé, THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., <i>Judge, Patna High Court</i> . Patna.
4-8-20	N	Dikshit, KASHINATH NARAYAN, M.A. c/o The Office of the Director-General of Archaeology, New Delhi.
5-1-98	R	Dods, WILLIAM KANE, <i>Agent, Hongkong and Shanghai Banking Corporation</i> . 6, Minto Park, Alipur, Calcutta.
2-2-31	A	Douglas, GORDON WATSON, B.SC., D.L.M., <i>State Chemist to the Government of Bhopal</i> . State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey, FREDERICK. 'Ballygunge', Cooden Drive, Bexhill-on-Sea, Sussex, England.
7-11-32	R	Driver, DARAB CURSETJI, M.A. (CANTAB.), <i>Barrister-at-Law, Constituted Attorney to Messrs. Tata & Sons, Ltd., Managing Agents for The Tata Iron & Steel Co., Ltd.</i> 71/73, Park Street, Calcutta.
7-5-34	R	Duncan, PERCIVAL CAIRNCROSS, <i>Mercantile Assistant with Messrs. George Henderson & Co., Ltd.</i> 101/1, Clive Street, Calcutta.
1-7-29	A	Dunn, JOHN ALEXANDER, D.SC., D.I.C., F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-1-33	N	Dutch, ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., <i>District Magistrate</i> . Noakhali.
3-7-33	A	Dutt, GURU SADAY, <i>Barrister-at-Law</i> , I.C.S. 12, Loudon Street, Calcutta.
30-9-35	R	Dutt, MOHENDRA NATH, L.E., <i>Consulting Engineer</i> . 12, Kailas Bose Lane, Howrah.
5-12-32	R	Dutt, NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), <i>Lecturer, Calcutta University</i> . 91-1B, Manicktollah Street, Calcutta.

Date of Election.		
5-3-28	A	Eberl, OTTO, DR. JUR., <i>Late Vice-Consul for Germany.</i> 2, Store Road, Ballygunge, Calcutta.
4-11-29	R	Edwards, L. BROOKE, <i>Manager in India. The Baldwin Loco. Works of Philadelphia, U.S.A.</i> 5, Dalhousie Square, Calcutta.
5-1-31	L	Evans, PERCY, B.A. (CANTAB.), F.G.S., <i>Geologist.</i> c/o The Burma Oil Co., Digboi, Assam.
6-2-28	L	Ezra, SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-12-29	N	Fawcus, LOUIS REGINALD, B.A. (CANTAB.), <i>Indian Civil Service, Magistrate and Collector.</i> Dacca
3-8-04	L	*Fermor, SIR LEWIS LEIGH, KT., O.B.E., M.INST.M.M., D.SC., A.R.S.M., F.G.S., F.R.S., F.R.A.S.B., <i>Director, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
31-10-06	F	Finlow, ROBERT STEEL, C.I.E., B.SC., F.I.C., <i>Late Director of Agriculture, Bengal.</i> c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.
3-2-36	R	Flury, ERNEST CHARLES, <i>Merchant, Manager of Messrs. Volkart Brothers.</i> 11, Clive Street (Post Box No. 606), Calcutta.
5-11-13	R	Fox, CYRIL S., D.SC. (BIRM.), M.I.M.E., F.U.S. <i>Geologica Survey of India,</i> 27, Chowringhee, Calcutta.
7-3-27	F	Fukushima, NAOSEIRO. 33, Hikawacho, Akasaka, Tokyo, Japan.
5-11-28	R	Galstaun, JOHN CARAPIET, O.B.E., <i>Merchant and Landholder.</i> 234/4, Lower Circular Road, Calcutta.
1-11-26	R	Galstaun, SHANAZAN, M.A., D.M.R.E., M.R.O.S., L.R.C.P., <i>Medical Practitioner, Radiologist, Medical College Hospital.</i> 39, Theatre Road, Calcutta.
6-10-09	R	*Gangoly, ORDHENDRA COOMAR, B.A., F.R.A.S.B. 2, Asutosh Mukherjee Road, Calcutta.
7-9-36	R	Gangooly, PHANINDRA LAL, M.A., <i>Lecturer in Mathematics, Calcutta University.</i> P-507, Rash Behari Avenue, Calcutta.
5-11-34	R	Gee, EDWARD ROWLAND, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
2-1-33	R	George, JAMES, B.A. (CANTAB.), I.C.S., <i>Special Officer, Political Department, Govt. of Bengal.</i> United Service Club, Calcutta.
6-2-33	L	Ghatak, JYOTISH CHANDRA, M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, <i>Professor.</i> 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.
7-5-28	R	Ghosal, UPENDRA NATH, M.A., PH.D., <i>Professor of History, Presidency College.</i> 12, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose, BIMAL CHANDRA, <i>Barriester-at-Law.</i> 27/1, Harish Mukherjee Road, Calcutta.
1-4-29	R	Ghose, DEB PROSONNO, <i>Zemindar.</i> 75, Beadon Street, Calcutta.
7-1-29	R	Ghose, THE HON'BLE MR. JUSTICE MOHIM CHANDRA, B.A. (CAL.), M.A. (CANTAB.), I.C.S., <i>Barriester-at-Law (Inner Temple), Judge, High Court.</i> 4A, Little Russell Street, Calcutta.
3-12-24	R	Ghose, SUSEIL CHANDRA, B.A., <i>Deputy Magistrate.</i> 1, Sikdarbagan Street, Calcutta.

Date of Election.		
2-4-24	R	Ghosh, K. , D.T.M., D.P.H. (CANTAB.), L.M.S., <i>Medical Practitioner</i> . 45, Creek Row, Calcutta.
7-3-27	R	Ghosh, PHANINDRA NATH , M.A., PH.D., SC.D. (PADUA), F.INST.P., <i>Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta</i> . 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh, TARAPADA , <i>Zemindar</i> . 14, Paddapukur Street, Kidderpore, Calcutta.
1-2-26	R	Ghuznavi, SIR ABDUL HALIM , KT., M.L.A., <i>Zemindar</i> . 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi, ISKANDER S. K. , <i>Zemindar and Member, Advisory Board of Industries, Government of Bengal</i> . 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.
1-2-26	R	Ghuznavi, ALHADJ SIR ABDELKERIM ABU AHMED KHAN , KT., M.L.O., <i>Zemindar of Dilduar</i> . 45, Jhowtolla Road, Calcutta (and) North House, Dilduar, Mymensingh.
3-12-34	R	Gladstone, JOHN , <i>Assistant, Messrs. Gillanders Arbuthnot & Co., Ltd.</i> 8, Clive Street, Calcutta.
5-3-28	R	Gooptu, DWIJENDRA NATH , <i>Medical Practitioner and Landholder</i> . 5, Middleton Street, Calcutta.
7-9-10	N	*Gravelly, FREDERIC HENRY , D.SC., F.R.A.S.B. <i>Museum House, Egmore, Madras</i> .
5-12-00	L	Grieve, JAMES WYNDHAM ALLEYNE . o/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-3-35	R	Groth, EDWARD M. , <i>American Consul</i> . American Consulate General, 9, Esplanade Mansions, Esplanade, Calcutta.
4-2-25	R	Guha, B. S. , M.A., PH.D. (HARVARD). <i>Indian Museum, Calcutta</i> .
6-12-26	R	Guha, THE HON'BLE MR. JUSTICE SURENDRANATH, RAI BAHADUR , <i>Judge, High Court</i> . 20, Lansdowne Road, Calcutta.
5-3-19	N	Gupta, SIVAPRASAD . <i>Seva Upavana, Benares City</i> .
5-8-15	R	Gurner, CYRIL WALTER , B.A. (OXON), I.C.S., <i>Chairman, Improvement Trust</i> . 4, Theatre Road, Calcutta.
5-2-34	R	Haldar, BHARATI VIKAS , M.A., B.L., <i>Advocate, High Court</i> . 47, Haldarpara Road, Kalighat, Calcutta.
6-1-30	R	Haldar, SUDHINDRA KUMAR , M.A., I.C.S., <i>Commissioner of Excise and Salt, Bengal</i> . 241, Lower Circular Road, Calcutta.
6-1-30	F	Hamilton, SIR DANIEL MACKINNON , KT., <i>Retired Partner, Messrs. Mackinnon Mackenzie & Co.</i> Balmacara, Rosshire, Scotland.
2-4-24	R	Haq, M. MAHFUZ-UL , M.A., <i>Lecturer, Presidency College</i> . 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	R	Harley, ALEXANDER HAMILTON , M.A., I.E.S., <i>Principal, Islamia College</i> . 19, Wellesley Square, Calcutta.
1-2-26	F	Harris, H. G. o/o Messrs. Martin & Harris, Ltd., <i>Rowlette Buildings</i> , 17, Prinsep Street, Calcutta.
2-4-28	R	Harris, LAWRENCE ERNEST , <i>Engineer, Manager for India, Messrs. Sulzer Brothers</i> . 4, Lyons Range, Calcutta.
5-11-19	N	Hemraj, MANYABARA RAJ GURU , C.I.E., <i>PANDITJI, Dhokatoke, Nepal</i> .
3-2-30	F	Henderson, ALEXANDER GAVIN , B.A. (OXON). <i>Buscot Park, Faringdon, Berks, England</i> .
6-3-28	R	*Heron, A. M. , D.SC. (EDIN.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., <i>Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.

Date of Election.		
7-6-11	L	*Hidāyat Hosain, MUHAMMAD, SHAMS 'UL-'ULAMA, KHAN BAHADUR, PH.D., F.R.A.S.B. 96/2c, Collin Street, Calcutta.
1-2-26	A	Hingston, H., LT.-COL., I.M.S., M.D., <i>Late Surgeon to H.E. the Governor of Bengal.</i> England.
4-11-35	R	Hirtzel, MICHAEL ARTHUR FREDERICK, B.A. (TRINITY COLLEGE, OXFORD), <i>Mercantile Assistant, Macneill & Co.</i> 2, Fairlie Place, Calcutta.
1-4-25	R	Hobbs, HENRY, MAJOR, V.D., <i>Merchant.</i> 9, Old Court House Street, Calcutta.
1-2-32	R	Holme, JAMES WILLIAM, M.A., I.E.S. (RETD.), <i>Principal, La Martinière.</i> 11, Loudon Street, Calcutta.
7-3-27	N	Hopkinson, ARTHUR JOHN, I.C.S., <i>Secretary to the Government, N. W.F. Province.</i> Peshawar, N.-W.F.P.
2-11-21	L	*Hora, SUNDER LAL, D.SC., F.Z.S., F.R.S.E., F.R.A.S.B. Zoological Survey of India, Indian Museum, Calcutta.
5-11-34	R	Hosain, PRINCE AFSARUL MULUK MIRZA MUHAMMED AKRAM, BAHADUR, <i>Political Pensioner and Landholder.</i> Afsar Manzil, 20, Ballygunge Circular Road, Calcutta.
6-6-23	L	*Howard, SIR ALBERT, KT., C.I.E., M.A., F.R.A.S.B., <i>Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India.</i> 14, Liskeard Gardens, Blackheath, London, S.E. 3.
2-9-35	N	Howland, FELIX, <i>Professor of English.</i> Habibia College, Kabul, Afghanistan.
7-3-32	N	Hughes, ARTHUR, B.A. (MANCHESTER), <i>Indian Civil Service, Magistrate and Collector,</i> Murshidabad, Bengal.
4-5-36	N	Husain, SYED ASAF, M.A., LL.B., <i>Lawyer.</i> 3, Old Court Road, Lucknow.
6-8-34	N	Husain, SYED ATA, M.A. (CAL.), C.E. (ROORKEE), <i>Retired Superintending Engineer, Hyderabad State.</i> Mohalla Lingumpally, Hyderabad, Deccan.
6-6-23	N	*Hutton, J. H., C.I.E., I.C.S., M.A., D.SC., F.R.A.S.B. Nowgong, Assam.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe, Hants, England.
4-3-35	R	Jack, THE HON'BLE MR. JUSTICE ROBERT ERNEST, I.C.S., <i>Judge, High Court.</i> United Service Club, Calcutta.
4-2-35	N	Jaffar, S. M., B.A., <i>Author, Translator to the Judicial Commissioner, North-West Frontier Province.</i> 1508, Khudadad Street, Peshawar City, N.-W.F.P.
6-6-27	L	Jain, BALDEODAS, <i>Merchant and Banker.</i> 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHHOTÉ LAL, M.R.A.S. 25, Central Avenue North, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Devashrama, Arrah.
6-8-28	N	Jaitly, P. L., <i>Electrical Engineer, Merchant.</i> 15, Canning Road, Allahabad.
1-11-26	F	Jameson, THOMAS BLANDFORD, MAJOR, M.C., M.A. (CANTAB.), I.C.S. Claremont, Kingskerswell, S. Devon, England.
6-5-25	R	Jatia, SIR ONKAR MULL, KT., O.B.E., <i>Merchant.</i> 2, Rupchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN, D.SC. (SHEFFIELD), I.E.S., <i>Principal, David Hare Training College.</i> United Service Club, Calcutta.

Date of Election.		
1-11-11	L	Kamaluddin AHMAD, SHAMS-UL-'ULAMĀ, M.A., I.E.S., <i>Principal, Krishnagar College, Krishnagar, Nadia.</i>
6-11-33	R	Kavyatirtha, RAM DHAN, <i>Pundit.</i> 55, Surendranath Banerjee Road, Calcutta.
4-5-10	L	*Kemp, STANLEY W., B.A., D.SC., F.R.E., F.R.A.S.B. 'Discovery Expedition', 52, Queen Anne Chambers, Dean Farrar Street, London, S.W. 1.
2-5-30	N	Kenny, DICK EDWARD COURTENAY, LT.-COL., I.A., <i>Deputy Commissioner, Tavoy, Burma.</i>
2-12-29	N	Khan, MATIUR RAHMAN, <i>Khas Mahal Circle Officer.</i> 27, Panchbhaighat, Dacca.
3-12-24	R	Khan, REZAUR RAHMAN, M.A., B.L., <i>Deputy President, Bengal Legislative Council.</i> 28, Convent Road, Entally, Calcutta.
6-5-25	R	Khanna, VINAYEK LAL, M.R.A.S., <i>Merchant.</i> 137F, Balaram Dey Street, Beadon Street P.O., Calcutta.
2-8-26	R	Khettry, BENIMADHO, <i>Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants.</i> 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (Ko-Shi), <i>Principal, College Department of Rissho University.</i> Oseki Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER, B.Sc., <i>Inspector of Mines in India</i> Dhanbad, E.I.R.
4-11-35	R	Klebe, ANINA, née BRANDT, PH.D. (GREIFSWALD, GERMANY), <i>Psychologist.</i> 14/1, Sudder Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.), PH.D., <i>Lecturer in Ancient Indian History (Fine Arts), Calcutta University.</i> 57, Ballygunge Circular Road, Calcutta.
3-9-34	R	Krishnan, K. S., D.Sc., <i>Mahendralal Sircar Professor of Physics, Indian Association for the Cultivation of Science.</i> 210, Bowbazar Street, Calcutta.
6-11-33	A	Krishnan, M. S., M.A. (MADRAS), PH.D. (LOND.), A.R.C.S., D.I.C. (LOND.), <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
2-4-28	R	Kumar, KUMAR KRISHNA, M.A., B.L., <i>Zemindar and Banker.</i> 31 & 31-1, Burtolla Street, Calcutta.
7-3-23	R	Labey, GEORGE THOMAS, M.C., <i>Bengal Pilot Service.</i> United Service Club, Calcutta.
4-2-35	R	Lal, RAM BIHARI, M.B., B.S., D.P.H., D.T.M. & H., D.B., <i>Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health.</i> 21, Chittaranjan Avenue, Calcutta.
6-3-89	L	*La Touche, THOMAS HENRY DIGGES, M.A., F.G.S., F.R.A.S.B. 230, Hills Road, Cambridge, England.
5-2-34	R	Law, BHABANI CHURN, <i>Merchant, Zamindar and Artist.</i> 223, Cornwallis Street, Calcutta.
5-8-14	L	Law, BIMALA CHARAN, M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.
1-2-11	R	Law, NARENDRA NATH, M.A., B.L., PH.D. 96, Amherst Street, Calcutta.
4-2-35	R	Law, PARBUTTY CHURN. 223, Cornwallis Street, Calcutta.
1-7-14	R	Law, SATYA CHURN, M.A., B.L., PH.D., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
3-9-34	R	Ledrus, MICHAEL, <i>Professor in Divinity, Lecturer at the Gregorian University, Rome; Member of the Society of Jesus, Editor, 'The New Review'.</i> St. Xavier's College, 30, Park Street, Calcutta.

Date of Election.		
7-6-26	R	Lemmon, RICHARD DENNIS, <i>Merchant</i> . c/o Messrs. Martin & Harris Ltd., 17, Prinsep Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN, K.C., <i>Barrister-at-Law, Judge, High Court</i> . 227/1, Lower Circular Road, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM, I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID, LT.-COL., I.M.S., M.D., B.OH., B.A.O., M.R.C.P., F.R.A.S.B. c/o The Standard Bank of S. Africa, Cradock, Cape Province, S. Africa.
1-3-26	R	McKay, JOHN WALLACE. c/o Messrs. Duncan Bros. & Co., Ltd., 101, Clive Street, Calcutta.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS, K.C.S.I., K.C.I.E., F.R.A.S.B. 39, Egerton Terrace, London, S.W. 3.
5-3-24	R	McPherson, JAMES. c/o Messrs. Begg Dunlop & Co., Ltd., 2, Hare Street, Calcutta.
7-6-16	N	Mahajan, SURYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C., M.A., B.SC., I.E.S., <i>Professor, Presidency College</i> . 210, Cornwallis Street, Calcutta.
1-3-11	R	Mahtab, SIR BIJAY CHAND, K.C.S.I., I.O.M., MAHARAJA-DEIRAJA BAHADUR OF BURDWAN. 6, Alipur Lane, Calcutta.
3-2-30	N	Mahtab, UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan</i> . The Palace, Burdwan.
6-2-24	R	Mahindra, K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.
9-6-20	R	*Majumdar, NANI GOPAL, M.A., F.R.A.S.B. <i>Archæological Survey of India, Indian Museum, Calcutta</i> .
2-2-16	R	Majumdar, NARENDRA KUMAR, M.A., <i>Professor, Calcutta University</i> . 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar, RAMESH CHANDRA, M.A., PH.D., <i>Professor, Dacca University</i> . Ramna, Dacca.
5-5-30	A	Mallam, G. L., CAPTAIN, I.A., <i>Census Superintendent</i> . Peshawar, N.-W.F.P.
4-11-29	R	Mallya, BANTWAL GANAPATHY, MAJOR, I.M.S., F.R.C.S.E. Civil Surgeon. Howrah
7-9-36	N	Mandhata, H. C., M.A. (ALLAHABAD), <i>Teacher, formerly Lecturer in History, Agra College</i> . Ghaziabad, Meerut.
6-2-18	L	*Manen, JOHAN VAN, C.I.E., <i>Officier de l'Instruction Publique</i> , F.R.A.S.B. 6, Temple Chambers, 6, Old Post Office Street, Calcutta.
5-6-01	F	Mann, HAROLD HART, D.SC., M.SC., F.I.C., F.L.S. Woburn Experimental Station, Aspley Guise, Bedfordshire, England.
6-1-30	N	Martin, M. F. C., CAPT., R.E. c/o The Garrison Engineer, Mingladon, Burma.
5-5-30	A	Matthias, OWEN GARDINER, <i>Managing Director, Messrs. Smith Stanistreet & Co., Ltd.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
2-1-28	N	Mello, FROILANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India, Professor of Parasitology</i> . Nova Gôa.
5-11-84	L	*Middlemiss, CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.S., F.R.A.S.B. Aviemore, Crowborough, Sussex, England.
1-2-26	N	*Mills, JAMES PHILIP, I.C.S., M.A. (OXON), J.F., F.R.A.S.B., <i>Deputy Commissioner</i> . Kohima Naga Hills, Assam.
5-6-12	N	Misra, CHAMPA RAM, B.A., RAI BAHADUR, PANDIT, <i>Diwan, Chhatarpur State</i> . Bundelkhand, C.I.

Date of Election.		
2-4-24	R	Mitra, J. C., M.A., B.L., <i>Retired Accountant-General, Bengal</i> . 1, Abinash Mitter Lane, Calcutta.
5-3-24	R	Mitter, THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law, Member, Bengal Executive Council</i> . 5, Outram Street, Calcutta.
5-3-24	R	Mitter, THE HON'BLE MR. JUSTICE DWARKANATH, M.A., D.L., <i>Judge, High Court</i> . 12, Theatre Road, Calcutta.
4-3-29	R	Mitter, HIRANYA KUMAR, <i>Landholder</i> . 1, Jhamapukur Lane, Amherst Street P.O., Calcutta.
5-4-26	R	Mitter, KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor, Presidency College (Retired)</i> . 72/1, Bondel Road, Ballygunge, Calcutta.
30-9-35	R	Mitter, SUDHIR CHUNDER, <i>Barrister-at-Law</i> . 19, Camac Street, Calcutta.
1-11-26	R	Modi, JAL R. K., B.A. 4, Camac Street, Calcutta.
5-3-34	R	Modi, JEHANGIR JEEVANJI JAMSHEDJI, <i>Merchant</i> . 5, Dhurumtollah Street, Calcutta.
6-8-24	N	Moloney, WILLIAM J., <i>General Manager of Reuter's for the East</i> . c/o 26/7, Dalhousie Square, Calcutta.
5-11-24	R	Mookerjee, B. N., B.A. (CANTAB), <i>Engineer</i> . 12, Mission Row, Calcutta.
2-7-24	R	Mookerjee, SYAMA PRASAD, M.A., B.L., <i>Vakil, High Court, Vice-Chancellor, Calcutta University</i> . 77, Russa Road North, Calcutta.
2-2-21	R	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., DOCTEUR-ES-LETTRES (PARIS) 3/1A, Raja Rajabullav Street, Calcutta.
5-12-27	R	Mukerjee, SUSIL KUMAR, F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals</i> . 1/1, Wood Street, Calcutta.
6-2-28	R	Mukerji, THE HON'BLE MR. JUSTICE MANMATHA NATH, KT., M.A., B.L., <i>Judge, High Court</i> . 8/1, Harsi Street, Calcutta.
3-3-30	N	Mukharji, ISAN CHANDRA, <i>Rai Bahadur, Tazimi Sardar and Retired Member of Jaipur Council</i> . Jaipur, Rajputana.
7-11-27	N	Mukherjee, DEVAPROSANNA, M.A., B.L., <i>Zemindar</i> . Burdwan.
2-8-26	R	Mukherjee, JNANENDRA NATH, D.SC. (LONDON), F.C.S. (LONDON), <i>Fellow of the Indian Chemical Society; Khaira Professor of Chemistry, University of Calcutta</i> . 92, Upper Circular Road, Calcutta.
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR, M.A., <i>Research Assistant, Calcutta University</i> . 27, Govinda Ghosal Lane, Bhawanipore, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD, M.A., B.L. 77, Russa Road North, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR, <i>Director, Raja D. N. Mullick & Sons, Ltd.</i> Colootola Rajbati, Chittaranjan Avenue, Calcutta.
6-8-34	R	Mullick, MANICK LALL, <i>Landholder; Honorary Magistrate, Sealdah</i> . 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR, <i>Zemindar and Landholder</i> . 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLORIAN OLIPHANT, A.I.M.M., F.G.S., <i>Mining Geologist and Engineer</i> . Tatanagar, B.N.Ry.
5-12-27	L	Namgyal, H.H. MAHARAJA SIR TASHI, K.C.I.F., <i>Maharaja of Sikkim</i> . Gangtok, Sikkim.

Date of Election.		
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA, M.A., M.L.C., Zemindar. Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HIRDE, M.A., B.T., Professor of History, Morris College. Nagpur, C.P.
5-2-34	N	Nariman, RUSTOM, K., M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), Professor of Engineering, Osmania University. 'Gulistan', Sappers Lines, Secunderabad, Deccan.
5-3-28	R	Neogi, PANCHANAN, M.A., PH.D., I.E.S., Professor of Chemistry, Presidency College. 21, Kundu Lane, Belgachia, Calcutta.
3-11-30	A	Newman, CARL DAMIEN, M.B.B.S., D.T.M. & H., District Medical Officer, E.B.Ry 2, Belvedere Park, Alipur, Calcutta.
3-12-24	N	Newman, CHAS F., F.R.G.S., M.R.S.T., M.C.P. Ramnagar, Benares.
7-4-15	F	Ohtani, COUNT KOZUI. San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala, E. S. 52, Chowringhee, Calcutta.
5-4-26	R	Parker, RICHARD HENRY, I.C.S., Late Scholar of St. John's College, Oxford; Workmen's Compensation Commissioner. Writer's Building, Calcutta.
5-2-34	R	Pasricha, CHIRANJI LAL, M.A., M.B., B.CHIR. (CANTAB.), M.R.C.S. (ENG.), L.R.C.P. (LOND.), CAPTAIN, I.M.S., Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene. 11, Rowland Road, Calcutta.
6-5-29	F	Pawsey, C. R., Indian Civil Service. c/o The Lloyds Bank, 6, Pall Mall, London, S.W. 1.
6-6-88	L	Pennell, AUBRAY PERCIVAL, B.A., Barrister-at-Law. Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival, FREDERICK GEORGE, PH.D. (LOND.), F.G.S., General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co. Jamshedpur.
1-4-25	R	Perler, FERDINAND, S.J., Most Reverend the Archbishop of Calcutta. 32, Park Street, Calcutta.
3-2-30	A	Pettigrew, REV. WILLIAM, Missionary. American Baptist Foreign Mission Society, P.O. Kangpokpi, Manipur, Assam.
6-4-31	N	Prasad, SHARDA. c/o Messrs. Gopinath Lal Behari, Satna.
3-4-18	L	*Prashad, BAINI, D.SC., F.Z.S., F.R.S.E., F.R.A.S.B., Director, Zoological Survey of India. Indian Museum, Calcutta.
3-8-25	N	Pruthi, HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), Imperial Entomologist, Imperial Institute of Agricultural Research. Pusa, Darbhanga.
3-12-24	R	Pushong, E. S., M.D., L.S.A., Medical Practitioner. 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman, SHAH KALIMUR, M.A., Lecturer in Arabic and Persian, Calcutta University. 51, Baitakhana Road, Calcutta.
7-9-36	N	Ram, DAULAT, Accountant, Military Secretary's Office. c/o Messrs. Biru Mal Chiranjil Lal, Chhatta Magni Ram, Patiala.

Date of Election		
6-4-36	R	Rankin, EVERETT H., M.B., <i>Assistant General Manager for India, The Standard Vacuum Oil Co.</i> 6, Durgapore Park, Alipore, Calcutta.
6-8-34	R	Rao, U. SHANKER, <i>Bengal Pilot Service.</i> 83, Chowringhee, Calcutta.
1-2-26	N	Rao, Y. RAMACHANDRA, RAO SAHIB, M.A., F.E.S., <i>Locust Research Entomologist.</i> McLeod Road, Karachi.
2-7-24	N	Ray, ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	R	Ray, HEM CHANDRA, M.A., PH.D. (LONDON). P.39A, Manicktollah Spur, Calcutta.
5-1-21	N	Ray, JAGADISNATH, MAHARAJA, <i>Maharaja of Dinajpore.</i> Dinajpore.
5-3-00	R	*Ray, SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.R.A.S.B., <i>University College of Science,</i> 92, Upper Circular Road, Calcutta.
5-11-28	L	Reinhart, WERNER, <i>Merchant.</i> c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.
2-4-24	F	Richards, F. J., I.C.S. 6, Lexham Gardens, London, W. 8.
5-2-34	R	Richter, HERBERT, DR. JUR., <i>Vice-Consul for Germany.</i> 26, Lee Road, Calcutta.
1 4-29	A	Rizvi, SYED HAMID HUSAIN, <i>Excise Sub-Inspector.</i> Mohalla Sanechri, Near Musjid of Munshi Sk Ghassu, Saugor, C.P.
3-12-24	L	Roerich, GEORGE NICHOLAS, M.A., M.R.A.S., <i>Orientalist.</i> 310, Riverside Drive, New York, U.S.A. ('Urusvati' Naggur, Kulu, Punjab).
2-7-28	L	Roerich, NICHOLAS, <i>Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter.</i> 310, Riverside Drive, New York, U.S.A.
3-12-24	N	Rogers, T. E., <i>Tea Planter.</i> The Tyroom Tea Co., Ltd., Kharikatia, Assam.
4-12-01	F	*Ross, SIR EDWARD DENISON, KT., C.I.E., PH.D., F.R.A.S.B., <i>Director, School of Oriental Studies.</i> Finsbury Circus, London, E.C. 2.
5-6-33	R	Rossetti, FELIX FRANCIS LEO, <i>Secretary.</i> Y.M.C.A. 42, Corporation Street, Calcutta.
6-12-26	R	Roy, A. K., <i>Barrister-at-Law, Advocate-General, Bengal.</i> 3, Upper Wood Street, P.O. Theatre Road, Calcutta.
1-12-30	N	Roy, KUMAR KAMALRANJAN, B.A., <i>Zemindar.</i> Kashim-bazar Post, Dt. Murshidabad.
4-3-35	R	Roy, SAILESWAR SINGH, <i>Landholder.</i> 15, Lansdowne Road, Calcutta.
6-8-24	N	Roy-Chowdhury, BRAJENDRA KISHORE, <i>Zemindar.</i> (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.
7-5-28	N	*Saha, MEGH NAD, D.SC., F.R.S., F.R.A.S.B., <i>Professor of Physics, University of Allahabad</i> Katra, Allahabad.
5-11-24	N	*Sahni, B., M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.R.A.S.B., <i>Professor of Botany.</i> The University, Lucknow.
5-2-34	L	Sale, HAROLD MONTAGUE, M.A., F.G.S. Mancatter Cottage, Atherstone, Warwickshire, England.
4-5-36	N	Sarawgi, CHANDMALL, <i>Member, Gauhati Municipal Board.</i> <i>Partner in the firm of Saligram Rai Chunilal Bahadur & Co.</i> Gauhati, Assam.
3-12-24	R	Sarkar, C. K., C.E., <i>Engineer and Architect.</i> 10, Hastings Street, Calcutta.

Date of Election		
4-2-35	R	Sarkar, NALINI RANJAN. Hindusthan Buildings, Corporation Street, Calcutta.
4-2-35	N	Sayeeduddin, MOHAMMED, B.Sc., M.A. (EDIN.), F.R.M.S., F.F.S.C., <i>Professor of Botany, Osmania University.</i> Hyderabad, Deccan.
6-3-33	R	Seal, SATIS CHANDRA, M.A., B.L., <i>Honorary Secretary, Indian Research Institute.</i> 55, Upper Chitpore Road, Calcutta.
5-2-34	R	Selzam, EDWART VON, <i>German Diplomatic Service, Consulate-General for Germany.</i> 28, Lee Road, Calcutta.
1-4-25	R	Sen, BENOY CHANDRA, M.A. 'Rupeswar', Diamond Harbour Road, Behala.
7-12-36	R	Sen, DHIRENDRA NATH, <i>Merchant and Landlord.</i> 7, Rawdon Street, Calcutta.
3-12-24	R	Sen, H. K., M.A., D.SC. (LONDON), D.L.C., <i>Professor of Chemistry, University College of Science.</i> 92, Upper Circular Road, Calcutta.
1-6-36	R	Sen, JITENDRO MOHAN, M.ED., B.Sc., F.R.G.S., F.N.I., <i>Assistant Director of Public Instruction, Bengal.</i> 63, Lansdowne Road, Calcutta.
5-12-23	L	Sen, LAKSHMAN, H.H. RAJA OF SUKET. Suket State, Punjab.
1-4-29	R	Sen-Gupta, NARES CHANDRA, M.A., D.L., <i>Advocate, High Court.</i> 36, Girish Mukherjee Road, Bhawanipore, Calcutta.
5-4-26	R	Senior-White, RONALD, F.E.S., F.R.S.T.M. & H., <i>Malariologist.</i> 5, Godfrey Mansions, Garden Reach, Calcutta.
1-12-97	R	Seth, MESROBY JACOB, M.B.A.S., M.S.A., F.R.S.A., <i>Examiner in Classical Armenian to the Calcutta University.</i> 9, Marsden Street, Upper Flat, Calcutta.
5-7-11	L	*Sewell, ROBERT BERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.R.A.S.B., LT.-COL., I.M.S., <i>Late Director, Zoological Survey of India.</i> 18, Barrow Road, Cambridge, England.
2-11-25	A	Sharif, MOHAMMAD, D.SC., F.R.M.S., F.L.S., <i>Lecturer in Zoology.</i> Muslim University, Aligarh.
6-5-29	N	Sharma, SRI RAM, M.A., M.R.A.S., M.A.O.S., <i>Professor of History.</i> D.A.V. College, Lahore.
5-8-35	R	Shattock, JOHN SWITHIN HARVEY, B.A. (Oxon.), I.C.S., <i>Assistant Private Secretary to His Excellency the Governor of Bengal.</i> Government House, Calcutta.
2-5-23	N	Shebbeare, E. O., <i>Conservator of Forests.</i> Darjeeling.
6-1-09	N	Shirreff, ALEXANDER GRIERSON, B.A., I.C.S. <i>Commissioner, Gorakhpur.</i> U.P.
6-3-01	N	*Shirwani, NAWAB HABIB-UR-RAHMAN, F.R.A.S.B., <i>Rais, Bhikanpur.</i> Habibganj, District Aligarh.
4-1-26	N	Shortt, H. E., LT.-COL., I.M.S., <i>Director, King's Institute, Guindy.</i> Madras.
6-2-28	L	Shumser JUNG BAHADUR RANA, SIR KAISER, K.B.E., SUPRADIPTA MANYAVARA, LIEUT.-GENERAL, <i>Nepalese Army.</i> Kaiser Mahal, Kathmandu, Nepal.
5-2-02	N	Shyam Lal, LALA, M.A., LL.B. Nawabganj, Cawnpore, U.P.
4-11-29	R	Siddiqi, MOHAMMAD ZUBAYR, M.A., PH.D., <i>Sir Asutosh Professor of Islamic Culture, Calcutta University.</i> P. 274, Bright Street, Park Circus, Calcutta.
5-3-13	L	*Simonsen, JOHN LIONEL, D.SC., F.I.C., F.R.A.S.B. <i>University College of North Wales, Bangor, North Wales.</i>

Date of Election.		
6-2-18	N	Singh, MANYABARA BADAKAJI MARICHI MAN, PANDITJI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	F	Singh, JAIPAL, M.A. (<i>Modern Greats</i>), St. John's College, Oxford University. Achimota College, Accra, West Africa.
5-3-34	L	Singh, HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR, K.C.I.E. Darbhanga.
2-1-33	N	Singh, RUDRA PERTAB, RAO BAHADUR, <i>Proprietor, Sonbarsa Raj</i> . Sonbarsa P.O., District Bhagalpore.
4-2-35	N	Singh, SARABJIT, M.A., B.L. P.O. Imphal, Manipur State.
3-6-35	R	Singhanla, RAGHUNATH PRASAD, VIDYABHUSAN-VISARAD, <i>Secretary, Rajasthan Research Society</i> . 27, Baranoshi Ghose Street, Simla, Calcutta.
7-9-36	R	Singh Roy, THE HON'BLE SIR BIJAY PRASAD, K.T., <i>Minister, Government of Bengal</i> . 15, Lansdowne Road, Calcutta.
5-9-12	R	Singhi, BAHADUR SINGH. (Azimganj, Murshidabad.) 48, Gariahat Road, Calcutta.
7-8-33	N	Sinh, RAGHUBIR, RAJKUMAR, M.A., LL.B., <i>Heir-Apparent of Sitamau State</i> . Raghubir Niwas, Sitamau, C.I.
7-9-36	N	Sinha, JADUNATH, M.A., PH.D., <i>Premchand Roychand Scholar, Professor of Philosophy, Meerut College</i> . Meerut, U.P.
7-5-28	F	Sinha, LORD, OF RAIPUR. Queen Anne Mansions, St. James' Park, London.
6-6-27	N	Sinha, SHEONANDAN PRASAD, M.B., <i>Assistant Surgeon</i> . Government Hospital, Jamshedpur.
6-2-28	R	Sinha, SUHRID CHANDRA, KUMAR, M.SC. 18, Ananda Lane, P.O. Shambazar, Calcutta.
4-1-26	N	Sinton, J. A., O.B.E., LT.-COL., I.M.S., V.C., <i>Officer-in-Charge, Malaria Bureau</i> . Central Research Institute, Kasauli.
5-7-16	L	Sircar, GANAPATI, VIDYARATNA. 69, Beliaghatta Main Road, Calcutta.
5-3-24	N	Sircar, THE HON'BLE SIR NRIPENDRA NATH, K.C.S.I., K.T., M.A., B.L., <i>Barrister-at-Law, Law Member, H.E. The Viceroy's Executive Council</i> . New Delhi.
5-3-24	R	Sircar, SIR NIL RATAN, K.T., M.A., M.D., <i>Physician</i> . 7, Short Street, Calcutta.
5-8-29	R	Sommerfeld, ALFRED, <i>Merchant</i> . c/o Mousell & Co., Mercantile Buildings, Lall Bazar, Calcutta.
3-9-34	R	Sondhi, VED PALL, M.SC., F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-3-27	R	Stagg, M., LT.-COL. R.E., O.B.E., <i>Master, H.M.'s Mint</i> . 47, Strand Road, Calcutta.
7-3-23	F	Stamp, L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.
4-1-26	N	Stapleton, GRACE (MISS), M.D., B.S. (LONDON). Dufferin Hospital, Delhi.
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., I.E.S., F.R.A.S.B., <i>Late Director of Public Instruction, Bengal</i> . St. Brelade, Jersey, C.I. England.
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., <i>Educational Commissioner with the Government of India</i> . New Delhi.
6-5-25	R	Staub, MAX, <i>Consul for Switzerland</i> . 100, Clive Street, Calcutta.
1-11-22	A	Strickland-Anderson (Mrs.). 1, Alipur Park, Calcutta.

Date of Election.		
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., Chief Medical Officer, E.B. Ry., late Vice-Chancellor, Calcutta University. 3, Suhrawardy Avenue, Park Circus, Calcutta.
3-3-20	N	Sundararaj, BUNGURU, M.A., PH.D., Director of Fisheries. Chepauk, Madras.
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, Major-General in the Nepalese Army. Singha Darbar, Kathmandu, Nepal.
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT., MAHARAJA BAHADUR. "Tagore Castle", 12, Prasanna Coomar Tagore Street, Calcutta.
7-11-27	R	Tarkatirtha, BIMALANANDA, Kaviraj, Punditbhusan, Byakaranatirtha. 90/3, Grey Street, Calcutta.
31-8-93	L	Tate, GEORGE PASSMAN. 56, Cantonment, Bareilly, U.P.
2-12-29	A	Thomas, H. W., F.C.S., M.P.S., Senior Partner and Chairman of the Managing Directors, Messers Smith Stanistreet & Co. Stanistreet House, 18, Convent Road, Entally, Calcutta.
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.R.A.S.B. 'The Laurels', Glebe Road, Cambridge, England.
4-3-29	A	Travers, SIR WALTER LANCELOT, KT., C.I.E., O.B.E., M.L.C., Tea Planter, Baradighi Tea Estate. Baradighi P.O., B.D.R., Jalpaiguri
7-5-26	F	Tucci, GUISEFFE, PH.D., Late Professor of Religions and Philosophy of India and the Far East, University of Rome, Professor of Chinese, University of Naples. Naples, Italy.
5-7-26	A	Tyson, JOHN DAWSON, O.B.E., M.A. (OXON), I.C.S., J.P., Late Private Secretary to H.E. the Governor of Bengal. Government House, Calcutta.
3-9-34	R	Uiser, M. E. M. M., Consul-General for Belgium. 9, Pretoria Street, Calcutta.
7-3-27	R	Urquhart, REV. W. S., M.A., D.D., D.LITT., Principal, Scottish Church College, and Late Vice-Chancellor, Calcutta University. 3 & 4, Cornwallis Square, Calcutta
4-7-27	N	Vance, R. L., M.B., B.CH., B.A.O. (DUB.), L.M. (ROT.), MAJOR, I.M.S., Officiating Chief Medical Officer, Western India States Agency. Rajkot, Kathiawar.
7-8-33	R	Vedantatirtha, VANAMALI, M.A., Formerly Professor, Cotton College, Gauhati. 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.
6-6-32	R	Vere-Hodge, MRS. E. H., Author. 9/4, Middleton Row, Calcutta.
5-7-05	R	Vidyabhushan, AMULYA CHARAN. Vangiya Mahakosha, 5, Jadu Mitter Lane (North), Shambazar, Calcutta.
1-2-32	R	Visser, DR. PH. C., Consul-General for the Netherlands. E-1, Clive Buildings, Clive Street, Calcutta.
6-3-01	L	*Vogel, JEAN PHILIPPE, LITT.D., F.R.A.S.B. Noordeindsplein, 4a, Lieden, Holland.
27-9-94	L	Vost, WILLIAM, LT.-COL., I.M.S. Leicester Lodge, 1, Medina Villas, Hove, Sussex, England.
6-5-25	R	*Wadia, D. N., M.A., B.SC., F.E.G.S., F.R.A.S.B., Geological Survey of India. 27, Chowringhee, Calcutta.

Date of Election.		
5-3-28	A	Waight, HARRY GEORGE, B.A. (OXON. and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge</i> . Burdwan.
2-5-27	A	Watson, SIR ALFRED HENRY, KT., <i>Late Editor, The 'Statesman', Calcutta</i> . England.
2-2-31	A	Wauchope, R. S., O.B.E., A.I.C.E., F.R.A.I., MAJOR, I.A. 8, Park Chambers, 93, Park Street, Calcutta.
6-2-33	N	Wellsted, THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., <i>Mining Engineer</i> . Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	R	West, WILLIAM DIXON, M.A. (CANTAB.), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
1-11-26	R	Westcott, FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), <i>Lord Bishop of Calcutta and Metropolitan of India, Burma and Ceylon</i> Bishop's House, 51, Chowringhee, Calcutta.
6-4-36	R	White, JOHN CAMPBELL, <i>American Consul-General</i> . 9, Esplanade Mansions, Calcutta.
19-9-06	L	*Whitehead, RICHARD BERTRAM, F.R.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams, HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMB.), <i>Chaplain of Barrackpore</i> . Barrackpore.
7-9-36	R	Williams, N. T. Messrs. Orr, Dignam & Co., 32, Dalhousie Square, Calcutta.
6-2-28	F	Williams, T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts., England.
3-2-34	R	Wilson, HARRY ELLIS CHASLER, M.B., CH.B., D.S., <i>Professor of Biochemistry and Nutrition, All-India Institute of Hygiene and Public Health</i> . U.S. Club, Calcutta.
1-4-08	R	Wordsworth, WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.). c/o The "Statesman", Chowringhee Square, Calcutta.
7-3-27	N	Wright, FREDERIC MATTLAND, <i>Broker</i> . Post Box No. 72, Bombay.
5-2-19	N	*Yazdani, GHULAM, M.A., F.R.A.S.B., <i>Epigraphist to the Government of India for Persian and Arabic Inscriptions, Hyderabad</i> . Archæological Survey, Hyderabad, Deccan.

ORDINARY MEMBERS.

(Chronological.)

1884.				1905.			
Nov.	5.	Middlemiss, C. S.		July	5.	Vidyabhusana, A. C.	
1887.				Aug.	2.	McCay, D.	
Aug.	25.	Criper, W. R.		1906.			
1888.				Jan.	3.	Chapman, J. A.	
June	6.	Pennell, A. P.		Sept.	19.	Whitehead, R. B.	
1889.				Oct.	31.	Finlow, R. S.	30
Mar.	6.	La Touche, T. H. D.		1907.			
1890.				July	3.	Brown, J. C.	
5 Mar.	5.	Ray, Sir Prafulla C.		"	"	Christie, W. A. K.	
1892.				1908.			
Jan.	11.	MacLagan, Sir Edward D.		Jan.	1.	Brahmachari, Sir U. N.	
Feb.	1.	Bodding, P. O.		April	1.	Wordsworth, W. C.	
1893.				1909.			
Aug.	31.	Tate, G. Passman		Jan.	6.	Shirreff, A. G.	35
1894.				April	7.	Bentley, C. A.	
Sept.	27.	Vost, W.		July	7.	Bazaz, R. K.	
1895.				Oct.	6.	Brown, P.	
10 Mar.	6.	Bose, Sir Jagadis C.		"	"	Gangoli, O. C.	
Sept.	19.	De, K. C.		Nov.	3.	Christophers, Sir S. R.	40
1896.				1910.			
Jan.	8.	Burn, Sir Richard		May	4.	Dhavle, S. B.	
1897.				"	"	Kemp, S. W.	
Dec.	1.	Seth, M. J.		Sept.	7.	Gravely, F. H.	
1898.							
Jan.	5.	Dods, W. K.		1911.			
15 April	6.	Tagore, Sir Pradyot C.		Feb.	1.	Insch, J.	
1900.				"	"	Law, N. N.	45
Dec.	5.	Grieve, J. W. A.		Mar.	1.	Mahtab, Sir Bijay Chand	
1901.				June	7.	Chatterjee, K. K.	
Mar.	6.	Shirwani, Nawab Habib-ur-Rahman		"	"	Hosain, M. H.	
"	"	Vogel, J. P.		July	5.	Sewell, R. B. S.	
June	5.	Mann, H. H.		Nov.	1.	Ahmed, K.	50
20 Dec.	4.	Ross, Sir Edward D.					
1902.				1912.			
Feb.	5.	Shyam Lal.		May	1.	Harley, A. H.	
July	2.	Doxey, F.		June	5.	Misra, C.	
1904.				July	3.	Andrews, E. A.	
June	1.	Tipper, G. H.		Sept.	4.	Ghosh, T.	
Aug.	3.	Fermor, Sir L. L.		"	"	Singhi, B. S.	55
25 "	"	Stapleton, H. E.					

1913.				Feb.	2.	Mookerjee, S. C.	
	Mar.	5.	Simonsen, J. L.	Mar.	2.	Agharkar, S. P.	
	April	2.	Calder, C. C.	Sept.	7.	Ray, H. C.	95
	June	4.	Majumdar, R. C.	Nov.	2.	Hora, S. L.	
	Nov.	5.	Fox, C. S.				
1914.				1922.			
60	Mar.	4.	Bacot, J.	Feb.	1.	Bhattacharya, V. S.	
	April	1.	Chaudhuri, G. D.	"	"	Chopra, R. N.	
	July	1.	Law, S. C.	April	5.	Abdul Ali, A. F. M.	
	Aug.	5.	Law, B. C.	Sept.	6.	Das-Gupta, S. N.	100
1915.				Nov.	1.	Strickland-Anderson, Mrs.	
	April	7.	Ohtani, Count K.				
65	Aug.	4.	Gurner, C. W.	1923.			
	Sept.	1.	Cleghorn, M. L. W.	Mar.	7.	Labey, G. T.	
	Oct.	27.	Chatterjee, Sir A. C.	"	"	Stamp, L. D.	
1916.				May	2.	Shebbeare, E. O.	
	Feb.	2.	Majumdar, N. K.	June	6.	Howard, Sir A.	105
	June	7.	Mahajan, S. P.	"	"	Hutton, J. H.	
70	July	5.	Sarkar, G.	Aug.	1.	Biswas, K. P.	
1917.				Dec.	5.	Chopra, B. N.	
	April	4.	Awati, P. R.	"	"	Barwell, N. F.	
	"	"	Aiyangar, K. V. R.	"	"	Sen, H. H. Lakshman	110
	Aug.	1.	Bhandarkar, D. R.				
1918.				1924.			
	Feb.	6.	Banerji, N. N.	Feb.	6.	Mahindra, K. C.	
75	"	"	Manen, Johan van	Mar.	5.	Banerjee, P. N.	
	"	"	Singh, B. M.	"	"	Mitter, Sir B. L.	
	April	3.	Prashad, B.	"	"	Mitter, D. N.	
1919.				"	"	McPherson, J.	115
	Feb.	5.	Yazdani, G.	"	"	Sircar, Sir N. N.	
	Mar.	5.	Gupta, S. P.	"	"	Sircar, Sir N. R.	
80	Nov.	5.	Hemraj, R.	April	2.	Bahl, K. N.	
1920.				"	"	Ghose, K.	
	Mar.	3.	Mahalanobis, P. C.	"	"	Richards, F. J.	120
	"	"	Sundara Raj, B.	"	"	Haq, M. M.	
	June	2.	Suhrawardy, Sir H.	"	"	Mitra, J. C.	
	"	"	Majumdar, N. G.	May	7.	Bhattacharya, B.	
85	Aug.	4.	Dikshit, K. N.	July	2.	Ray, A. C.	
	Sept.	1.	Chakladar, H. C.	"	"	Mookerjee, S. P.	125
	"	"	Chanda, R. P.	Aug.	6.	Chatterji, S. K.	
	"	"	Chatterjee, N. C.	"	"	Moloney, W. J.	
	Dec.	"	Akbar Khan, Sir M.	"	"	Roy-Chowdhury, B. K.	
1921.				Nov.	5.	Chattopadhyay, K. P.	130
90	Jan.	5.	Ray, J. N.	"	"	Sahni, B.	
	Feb.	2.	Jain, Chhote Lal	"	"	Mookerji, B. N.	
	"	2.	Mukerjee, R. P.	Dec.	3.	Das, S. N.	
				"	"	Newman, Chas. F.	
				"	"	Pushong, E. S.	135
				"	"	Rogers, T. E.	
				"	"	Basu, J. N.	
				"	"	Ghose, S. C.	
				"	"	Sarkar, C. K.	
				"	"	Roerich, G. N.	140
				"	"	Sen, H. K.	
				"	"	Khan, R. R.	

1925.			
	Feb.	4.	Guha, B. S.
	Mar.	4.	Benthall, Sir E. C.
145	"	"	Das, A. N.
	April	1.	Perier, F.
	"	"	Hobbs, H.
	"	"	Sen, B. C.
	May	6.	Jatia, Sir O. M.
150	"	"	Khanna, V. L.
	"	"	Staub, Max.
	"	"	Wadia, D. N.
	June	3.	Datta, S. K.
	July	6.	Bose, M. M.
155	Aug.	3.	Pruthi, H. S.
	Nov.	2.	Acharya, P.
	"	"	Chattopādhyāya, K. C.
	"	"	Crookshank, H.
	"	"	Kimura, R.
160	"	"	Sharif, M.
1926.			
	Jan.	4.	Shortt, H. E.
	"	"	Sinton, J. A.
	"	"	Stapleton, G. (Miss)
	Feb.	1.	Rao, Y. R.
165	"	"	Ghuznavi, Sir A. K.
	"	"	Hingston, H.
	"	"	Harris, H. G.
	"	"	Ghuznavi, A. H.
	Mar.	1.	McKay, J. W.
170	"	"	Datta, H. N.
	"	"	Basu, N. K.
	"	"	Kramrisch, Stella
	"	"	Bagnall, J. F.
	April	5.	Senior-White, R.
175	"	"	Ghose, B. C.
	"	"	Parker, R. H.
	"	"	Bhatia, M. L.
	"	"	Mitter, K. N.
	June	7.	Lemmon, R. D.
180	July	5.	Mukhopadhyaya, P. K.
	"	"	Tyson, J. D.
	"	"	Lyne, H. W.
	Aug.	2.	Mukherjee, J. N.
	"	"	Khettry, B.
185	Nov.	1.	Jameson, T. B.
	"	"	Modi, J. R. K.
	"	"	Westcott, F.
	"	"	Barhut, T. K.
	"	"	Mills, J. P.
190	"	"	Galstaun, S.
	"	"	Bagchi, P. C.
	Dec.	6.	Aiyangar, S. K.
	"	"	Guha, S. N.
	"	"	Roy, A. K.

1927.			
195	Jan.	3.	Chakravarty, N.
	"	"	Bivar, H. G. S.

	Feb.	7.	Chatterjee, A.	
	"	"	Captain, D. M.	
	Mar.	7.	Hopkinson, A. J.	
	"	"	Urquhart, W. S.	200
	"	"	Bake, A. A.	
	"	"	Stagg, M.	
	"	"	Ghosh, P. N.	
	"	"	Abdul Kadir, A. F. M.	
	"	"	Fukushima, N.	205
	"	"	Wright, F. M.	
	May	2.	Watson, Sir A. H.	
	June	6.	Nandi, Maharaja S. C.	
	"	"	Jain, R.	
	"	"	Sinha, S. P.	210
	July	4.	Chatterjee, P. P.	
	"	"	Chakravarti, C.	
	"	"	Vance, R. L.	
	Nov.	7.	Tarkatirtha, B.	
	"	"	Mukherji, D.	215
	"	"	Brahmachary, S. C.	
	Dec.	5.	Namgyal, H. H. Sir Tashi	
	"	"	Dechhen, H. H. Kun-zang	
	"	"	Chowdhury, Sir C.	
	"	"	Mukerjee, S. K.	220

1928.				
Jan	2.	Basu, N. M.		
"	"	Mello, F. de		
Feb	6.	Sinha, S. C.		
"	"	Ezra, Sir D.		
"	"	Mukerji, Sir M. N.	225	
"	"	Williams, T. T.		
"	"	Shumsher, Sir Kaiser		
Mar.	5.	Waight, H. G.		
"	"	Gooptu, D. N.		
"	"	Neogi, P.	230	
"	"	Biswas, C. C.		
"	"	Eberl, Otto		
April	2.	Mullick, K. C.		
"	"	Bhattacharyya, N. C.		
"	"	Kumar, K. K.	235	
"	"	Chowdhury, Rai J. N.		
"	"	Harris, L. E.		
May	7.	Chatterji, K. N.		
"	"	Chatterjee, Sir N. R.	.	
"	"	Tucci, G.	240	
"	"	Murray, E. F. O.		
"	"	Ghosal, U. N.		
"	"	Lord Sinha of Raipur		
"	"	Saha, M. N.		
June	4.	Bhadra, S. N.	245	
"	"	Bhattachali, N. K.		
July	2.	Roerich, N.		
Aug.	6.	Jaitly, P. L.		
"	"	Ghuznavi, I. S. K.		
"	"	Heron, A. M.	250	

	Nov.	5.	Olpadvala, E. S.	
	"	"	Statham, R. M.	
	"	"	Reinhart, W.	
	"	"	Galstaun, J. C.	
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	1929.			
255	Jan.	7.	Ghose, M. C.	
	Feb	4.	Narain, Hirde	
	"	"	Jenkins, W. A.	
	Mar.	4.	Travers, Sir W. L.	
	"	"	Mitter, H. K.	
260	"	"	De, J. C.	
	"	"	Basu, B. K.	
	"	"	Mullick, P. N.	
	April	1.	Ghose, D. P.	
	"	"	Rizvi, S. H. H.	
265	"	"	Sen-Gupta, N. C.	
	May	6.	Sharma, S. R.	
	"	"	Williams, H. F. F.	
	"	"	Pawsey, C. R.	
	July	1.	Dunn, J. A.	
270	Aug.	5.	Sommerfeld, A.	
	Nov.	4.	Singh, J.	
	"	"	Cotter, G. de P.	
	"	"	Campbell, G. R.	
	"	"	Edwards, L. B.	
275	"	"	Siddiqi, M. Z.	
	"	"	Mallya, B. G.	
	Dec.	2.	Khan, M. R.	
	"	"	Fawcus, L. R.	
	"	"	Thomas, H. W.	
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	1930.			
280	Jan.	6.	Jain, N. K.	
	"	"	Halder, S. K.	
	"	"	Hamilton, Sir D. M.	
	"	"	Martin, M. F. C.	
	"	"	Chakravarti, S. C.	
285	Feb.	3.	Henderson, A. G.	
	"	"	Mahtab, U. C.	
	"	"	Pettigrew, W.	
	"	"	Chakravarti, M. N.	
	Mar.	3.	Mukharji, I. C.	
290	"	"	Ashton, H. S.	
	May	5.	Deo, Sir P. C. Bhanj	
	"	"	Matthias, O. G.	
	"	"	Mallam, G. L.	
	"	"	Cooper, G. A. P.	
295	June	2.	Kenny, D. E. C.	
	Nov.	3.	Austin, G. J.	
	"	"	Rahman, S. K.	
	Nov	"	Newman, C. D.	
	Dec.	1.	Roy, K. K.	
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	1931.			
300	Jan.	5.	Chatterji, D.	
	"	"	Evans, P.	
	Feb.	2.	Wauchope, R. S.	
	"	"	Douglas, G. W.	

	Feb.	2.	Clough, J.	
	Mar.	2.	Bose, S. K.	305
	April	6.	Bhose, J. C.	
	"	"	Prasad, S.	
	May	4.	Bottomley, J. M.	
	June	1.	Lort-Williams, J.	
	Aug.	3.	Barua, K. L.	310
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	1932.			
	Feb.	1.	Holme, J. W.	
	"	"	Visser, Ph. C.	
	Mar.	7.	Hughes, A.	
	"	"	Chakraborty, K. B.	
	"	"	Darbari, M. D.	315
	June	6.	Vere-Hodge, Mrs. E. H.	
	Nov.	7.	Suvarna Shumser	
	"	"	Driver, D. C.	
	Dec.	5.	Dutt, N.	
	"	"	Boyle, C. A.	320
	"	"	Deb, S. K.	
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	1933.			
	Jan.	2.	George, J.	
	"	"	Dutch, R. A.	
	"	"	Singh, R. P.	
	Feb.	6.	Wellsted, T. A.	325
	"	"	Ghatak, J. C.	
	"	"	West, W. D.	
	Mar.	6.	Seal, S. C.	
	June	5.	Chakravarti, S. K.	
	"	"	Rossetti, F. F. L.	330
	July	3.	Dutt, G. S.	
	Aug.	7.	Sinh, Raghubir	
	"	"	Vedantatirtha, V.	
	Nov.	6.	Kavyatirtha, R. D.	
	"	"	Krishnan, M. S.	335
	"	"	Coulson, A. L.	
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	1934.			
	Jan.	1.	Ahmad, M. J.	
	Feb.	5.	Bates, W. H.	
	"	"	Bhuyan, S. K.	
	"	"	Halder, B. V.	340
	"	"	Kirby, W.	
	"	"	Law, B. C.	
	"	"	Nariman, R. K.	
	"	"	Pasricha, C. L.	
	"	"	Percival, F. G.	345
	"	"	Richter, H.	
	"	"	Sale, H. M.	
	"	"	Selzam, E. von	
	Mar.	5.	Craddock, Sir W. M.	
	"	"	Modi, J. J. J.	350
	"	"	Singh, H. H. Sir K.	
	May	7.	Bent, W. A.	
	"	"	Duncan, P. C.	
	June	4.	Chatterji, B. R.	
	"	"	Daver, N. S.	355

	Aug. 6.	Husain, S. A.		Sep. 30	Mitter, S. K.	
	" "	Mullick, M. L.		" "	Howland, F.	
	" "	Rao, U. S.		Nov. 4.	Bor, N. L.	
360	Sep. 3.	Auden, J. B.		" "	Anina Klebe.	
	" "	Krishnan, K. S.		" "	Hirtzel, M. A. F.	390
	" "	Ledrus, M.		" "	Chaudhuri, S. N.	
	" "	Sondhi, V. P.		Dec. 2.	Blakiston, J. F.	
	" "	Ulser, M. E. M. M.				
	" "	Couchman, H. J.		1936.		
365	Nov. 5.	Gee, E. R.		Jan. 6.	Anderson, Rt. Hon.	
	" "	Hosain, Prince			Sir John.	
	" "	A. M. M. M. A.		" "	Berkeley-Hill, Owen	
	" "	Dey, M.		" "	A. R.	
	Dec. 3.	Burt, B. C.		" "	Brocke, A. G.	395
	" "	Gladstone, J.		Feb. 3.	Ahmad, Alfazuddin.	
370	" "	Wilson, H. E. C.		" "	Catto, Sir T. S.	
	" "	Brahmachari, P. N.		" "	Flury, E. C.	
	" "	Chatterjee, S. C.		Mar. 2.	Chatterji, M.	
				" "	Chatterji, Mrs. T.	400
1935.				April 6.	Rankin, E. H.	
	Feb. 4.	Singh, S.		" "	White, J. C.	
	" "	Sayeeduddin, M.		May 4.	Husain, S. A.	
375	" "	Sarkar, N. R.		" "	Sarawgi, C.	
	" "	Law, P. C.		June 1.	Sen, J. M.	405
	" "	Lal, R. B.		Sep. 7.	Bagchi, K. N.	
	" "	Jaffar, S. M.		" "	Gangooly, P. L.	
	Mar. 4	Roy, S. Singh.		" "	Mandhata, H. O.	
380	" "	Jack, Hon. Justico		" "	Ram, D.	
	" "	R. E.		" "	Singh Roy, Hon. Sir	
	" "	Groth, E. M.		" "	B. P.	410
	June 3.	Singhanian, R. P.		" "	Sinha, J.	
	Aug. 5.	Shattock, J. S. H.		" "	Williams, N. T.	
	Sep. 30.	Dutt, M. N.		Nov. 2.	Bothra, S.	
385	" "	Basu, S. K.		Dec. 7.	Daga, M.	
				" "	Sen, D. N.	415

LIFE MEMBERS.

(Chronological.)

	5-11-84	C. S. Middlemiss (30 N.).	5- 3-13	J. L. Simonsen (19 N.).	
	6- 6-88	A. P. Pennell (88 F.).	4- 3-14	J. Bacot (14 F.).	
	6- 3-89	T. H. D. La Touche (10 N.).	5- 8-14	B. C. Law (33 R.).	30
	11- 1-93	Sir Edward D. Maclagan (94 R.).	5- 7-16	G. Siroar (29 N.).	
5	1- 2-93	P. O. Bodding (14 N.).	6- 2-18	Johan van Manen (25 R.).	
	31- 7-93	G. P. Tate (23 N.).	3- 4-18	B. Prashad (29 R.).	
	27- 9-94	W. Vost (94 F.).	2-11-21	S. L. Hora (30 N.).	
	19- 9-95	K. C. De (26 R.).	6- 6-23	Sir A. Howard (30 N.).	35
	5-12-00	J. W. A. Grieve (00 F.).	1- 8-23	K. Biswas (36 R.).	
10	6- 2-01	J. Ph. Vogel (25 F.).	5-12-23	H.H. Lakshman Sen (24 N.).	
	2- 7-02	F. Doxey (28 R.).	7- 5-24	B. Bhattacharya (24 N.).	
	1- 6-04	G. H. Tipper (27 N.).	6- 8-24	L. M. Davies (24 N.).	
	3- 8-04	Sir Lewis Leigh Fermor (36 F.).	3-12-24	G. Roerich (28 F.).	40
	28- 9-04	H. E. Stapleton (26 R.).	6- 6-27	B. D. Jain (28 R.).	
15	2- 8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
	3- 1-08	J. A. Chapman (28 N.).	5-12-27	H.H. Sir Tashi Nam- gyal (27 N.).	
	19- 7-08	R. B. Whitehead (26 N.).	5-12-27	H.H. Kunzang Dech- hen (27 N.).	
	3- 7-07	J. Coggin Brown (28 N.).	6- 2-28	Sir D. Ezra (28 R.).	45
	3- 7-07	W. A. K. Christie (29 N.).	6- 2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	
20	1- 1-08	Sir U. N. Brahma- chari (27 R.).	2- 7-28	N. Roerich (28 F.).	
	7- 4-09	C. A. Bentley (30 N.).	5-11-28	W. Reinhart (28 F.).	
	4- 5-10	S. B. Dhavle (10 N.).	4-11-29	G. de P. Cotter (32 N.).	
	4- 5-10	S. W. Kemp (29 F.).	3- 3-30	H. S. Ashton (30 N.).	50
	1- 2-11	James Insch (28 R.).	5- 1-31	P. Evans (31 N.).	
25	7- 6-11	M. Hidayat Hosain (27 N.).	7-11-32	Suvarna Shumser Jung Bahadur Rana (32 N.).	
	5- 7-11	R. B. S. Sewell (28 N.).	6- 2-33	J. C. Ghatak (33 R.).	
	1-11-11	Kamaluddin Ahmad (24 N.).	5- 2-34	H. M. Sale (34 N.).	
			5- 3-34	H.H. Sir K. Singh (34 N.).	55

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election	(Science.)
15-1-34	BARON ERNEST RUTHERFORD OF NELSON, O.M., President, Royal Society, London.
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secrétaire Perpetuel, Académie des Sciences, Paris.
15-1-34	SIR SYDNEY BURRARD, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. SIR SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, K.T., Avondale, Sydney Road, Guildford, Surrey, England
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhusvej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMBONG RAJANUBHAB OF SIAM, Siam.

ASSOCIATE MEMBERS.

Date of Election.	
1-2-22	*PIERRE JOHANNES, REV., S.J., B.LITT. (OXON.), <i>Professor of Philosophy</i> . St. Xavier's College, 30, Park Street, Calcutta.
1-2-22	*ANANTAKRISHNA SASTRI, MAHAMAHOPADHYAYA, VEDANTA-VISARADA, <i>Lecturer in Sanskrit</i> , Calcutta University. 32, College Square, Calcutta.
2-5-27	*N. N. VASU, RAI SAHIB. 20, Visvakosh Lane, Baghbazar, Calcutta.
2-12-29	†SARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor</i> , 'Man in India'. Church Road, Ranchi.
1-1-34	L. BOGDANOV. Flat 8-B, Solomon Mansions, 7, Royd Street, Calcutta.

* Re-elected for a further period of five years on 7-3-1932 under Rule 2c.

† Re-elected for a further period of five years on 1-1-1934 under Rule 2c.

INSTITUTIONAL MEMBERS

	Date of Election.	
	28-10-29	The Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland.
	2-12-29	The Adyar Library, Adyar, Madras S.
	4-5-31	The Benares Hindu University Library, Benares.
	1-6-31	The Ohtani University Library, Kyoto, Japan.
5	7-12-31	The Annamalai University Library, Annamalai-nagar, Chidambaram, S. India.
	30-10-33	The Allahabad University Library, Allahabad.
	30-4-34	The Bombay University Library, Bombay.
	23-1-36	The Principal, Islamia College Peshawar.
	4-5-36	Principal, Patna College, Patna.
10	7-12-36	President, Forest Research Institute, Dehra Dun.

ORDINARY FELLOWS

	Date of Election	
	2-2-10	T. H. D. La Touche, B.A., F.G.S.
	2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.SC.
	2-2-10	Sir E. D. Ross, KT., C.I.E., PH.D.
	7-2-12	Sir J. C. Bose, KT., C.S.I., C.I.E., M.A., D.SC., F.R.S.
5	7-2-12	Sir Samuel R. Christophers, KT., C.I.E., O.B.E., I.M.S., F.R.S.
	7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.
	5-2-13	J. Ph. Vogel, PH.D., LITT.D.
	5-2-13	S. W. Kemp, B.A., D.SC., F.R.S.
	3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.
10	2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S. (<i>retd.</i>).
	2-2-16	Sir L. L. Fermor, KT., O.B.E., A.R.S.M., D.SC., F.G.S., M.INST.M.M., F.R.S.
	7-2-17	F. H. Gravely, D.SC.
	6-2-18	J. L. Simonsen, D.SC., F.I.C., F.R.S.
	6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.
15	5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.
	5-2-19	W. A. K. Christie, B.SC., PH.D., M.INST.M.M.
	5-2-19	D. R. Bhandarkar, M.A., PH.D.
	5-2-19	R. B. Seymour Sewell, C.I.E., M.A., SC.D., M.R.C.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., I.M.S.
	2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F.
20	1-2-22	Ramaprasad Chanda, B.A.
	4-2-25	M. Hidayat Hosain, PH.D.
	1-2-26	P. O. Bodding, M.A.
	7-2-27	Johan van Manen, C.I.E.
	7-2-27	B. Sahnii, M.A., SC.D., D.SC., F.G.S.
25	6-2-28	H. E. Stapleton, M.A., B.SC., I.E.S. (<i>retd.</i>).
	6-2-28	B. Prashad, D.SC., F.Z.S., F.R.S.E.
	6-2-28	C. A. Bentley, C.I.E., M.B., D.P.H., D.T.M. & H.
	4-2-29	Sir Albert Howard, KT., C.I.E., M.A.
	4-2-29	J. H. Hutton, C.I.E., M.A., D.SC., I.C.S.
30	4-2-29	Sir Edward D. MacLagan, K.C.S.I., K.C.I.E.
	3-2-30	G. de P. Otter, B.A., SC.D., M.INST.M.M., F.G.S.
	3-2-30	S. L. Hora, D.SC., F.Z.S., F.R.S.E.
	3-2-30	J. P. Mills, I.C.S., M.A., J.P.

Date of Election.		
3-2-30	Meghnad Saha, D.S.C., F.R.S.	
2-2-31	S. Krishnaswami Aiyangar, M.A., PH.D., F.R.HIST.S.	35
2-2-31	R. N. Chopra, C.I.E., M.A., M.B., I.M.S.	
2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).	
1-2-32	J. Racot.	
6-2-33	Percy Brown, A.R.C.A.	
6-2-33	Ordhendra Coomar Gangoly, B.A.	40
6-2-33	Ghulam Yazdani, M.A.	
5-2-34	D. N. Wadia, M.A., B.S.C., F.R.G.S.	
3-2-36	S. K. Chatterji, M.A. (CAL.), D.LITT. (LOND.).	
3-2-36	A. M. Heron, D.S.C. (EDIN.), F.G.S., F.R.G.S., F.R.S.E.	
3-2-36	N. G. Majumdar, M.A.	45
3-2-36	Nawab Habib-ur-Rahman Shirwani.	

HONORARY FELLOWS

Date of Election.		
5-2-06	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.	
2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberloy, Surrey, England.	
6-0-11	KAMAKHYANATH TARKAVAGISA, MAHAMAHOPADHYAYA. 23/1B, Ganon Mitter Lane, P.O. Shambazar, Calcutta.	
5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.S.C., LL.D., PH.D., F.R.S. Trinity College, Cambridge, England.	
6-12-16	G. A. BOULENGER, F.R.S., LL.D. Jardin Botanique de L'Etat, Brussels.	5
4-2-20	SIR AUREL STEIN, K.C.I.E., PH.D., D.LITT., D.S.C., D.O.L., F.B.A. c/o Indian Institute, Oxford, England.	
4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVIe.	
4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S. Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2.	
4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.	
4-2-20	SIR DAVID PRAIN, KT., C.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.L.S., F.R.S., F.Z.S., M.R.I.A. Royal Botanic Gardens, Kew, Surrey, England.	10
4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.S.C., LL.D., D.C.L., F.R.S., F.R.A.S. St. John's College, Cambridge, England.	
4-2-20	SIR JAMES FRAZER, KT., D.C.L., LL.D., LITT.D. Trinity College, Cambridge.	
4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.	
2-3-21	F. W. THOMAS, C.I.E., M.A., PH.D., <i>Boden Professor of Sanskrit, University of Oxford</i> . 161, Woodstock Road, Oxford, England.	
7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.S.C., F.R.S. <i>Principal</i> , University of Edinburgh, Blackford Brae, Edinburgh.	15
7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.	
7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.	
7-3-27	RT. HON'BLE THE EARL OF LYTTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.	
5-12-27	LT.-COL. SIR T. WOLSELEY HAIG, K.C.I.E., C.S.I., C.B.E., M.A., C.M.G. 34, Gledstanes Road, West Kensington, London, W. 14.	

Date of Election		
20	5-5-30	DR. R. ROBINSON, D.SC., F.R.S. The Dyson Perrins Laboratory, South Parks Road, Oxford, England.
	5-5-30	DR. H. JACOBI, C.I.E. (HON.). 59, Niebuhrstrasse, Bonn, Germany.

CHANGES IN MEMBERSHIP.

LOSS OF MEMBERS DURING 1936.

BY RETIREMENT.

Ordinary Members.

1. Shrinarayan Chokhani. (1926.)
2. J. N. Gupta. (1928.)
3. M. N. Kanjilal. (1924.)
4. S. C. Mallik. (1928.)
5. M. A. Kornl. (1930.)
6. J. F. Pessein. (1930.)
7. C. A. Cookson. (1935.)
8. N. E. Parry. (1929.)
9. C. L. Kapoor. (1935.)
10. Nico Reneman. (1928.)
11. Bisvesvar Bhattacharya. (1908.)
12. Amareswar Thakur. (1932.)
13. Baron W. Ow-Wachendorf. (1934.)
14. Nawab M. Muzammil-Ullah Khan. (1921.)
15. Mirza Mohd. (1932.)
16. R. C. Hobart. (1928.)
17. Gopi Chand Chopra. (1928.)
18. Oswald Urchs. (1928.)
19. R. A. S. Thomas. (1936.)
20. Capt. C. J. Moris. (1933.)

BY DEATH.

Ordinary Members.

1. Sir N. D. Beatson-Bell. (1895.)
2. Sir R. N. Mookerjee. (1898.)
3. Puran Chand Nahar. (1906.)
4. Lt.-Col. R. Knowles. (1920.)
5. Sarat Chandra Bose. (1929.)
6. A. C. Woolner. (1906.)

Honorary Fellows.

1. Dr. C. J. H. Nicolle. (1929.)
2. Sir R. N. Mookerjee. (1929.)
3. Dr. C. Snouck Hurgronje. (1927.)

UNDER RULE 38.

1. G. T. Sitling. (1932.)
2. S. B. Pande. (1923.)
3. J. P. Shukla. (1931.)

UNDER RULE 40.

1. Count Bassewitz. (1930.)
2. Andrew Fleming. (1926.)
3. R. Friel. (1919.)
4. R. Y. Jarvis. (1929.)
5. Thornton Jones. (1926.)
6. Hans Koester. (1925.)
7. C. E. Lomax. (1911.)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
 1895 Yati Bhusana Bhaduri.
 1896 Jnan Saran Chakravarti.
 1897 Sarasi Lal Sarkar.
 1901 Sarasi Lal Sarkar.
 1904 { Sarasi Lal Sarkar.
 Surendra Nath Maitra.
 1907 Akshoy Kumar Mazumdar.
 1911 { Jitendra Nath Rakshit.
 Jatindra Mohan Datta.
 Rasik Lal Datta.
 1913 { Saradakanta Ganguly.
 Nagendra Chandra Nag.
 Nilratan Dhar.
 1918 Bibhutibhusan Dutta.
 1919 Jnanendra Chandra Ghosh.
 1922 Abani Bhusan Datta.
 1923 Bhailal M. Amin.
 1926 Bidhu Bhusan Ray.
 1927 Kalipada Biswas.
 1931 T. C. N. Singh.
 1932 P. N. Das-Gupta.
 1933 Nirnal Kumar Sen.
 1934 D. P. Roy Chowdhury.
 1935 Kalipada Biswas.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
 1903 Sir Ronald Ross, KT., K.C.B., C.I.E., K.C.M.G., M.B.C.S.,
 F.R.C.S., D.P.H., LL.D., D.S.C., M.D., F.R.S.
 1905 D. D. Cunningham, C.I.E., F.R.S.
 1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
 1909 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
 F.L.S., F.Z.S., M.R.I.A., F.R.S.
 1911 Carl Diener.
 1913 William Glen Liston, C.I.E., M.D., D.P.H.
 1915 J. S. Gamble, C.I.E., M.A., F.R.S.
 1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
 1919 N. Annandale, C.I.E., D.S.C., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
 1921 Sir Leonard Rogers, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
 F.R.S.
 1923 Sir Samuel Christophers, KT., C.I.E., O.B.E., F.R.S., F.A.S.B.,
 M.B., LT.-COL., I.M.S.
 1925 J. Stephenson, C.I.E., B.S.C., M.B., CH.B., F.R.S., F.R.C.S.,
 F.R.S.E., LT.-COL., I.M.S.
 1927 S. W. Kemp, B.A., D.S.C., F.R.S., F.A.S.B.
 1929 Sir Albert Howard, KT., C.I.E., M.A., F.A.S.B.

- 1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.),
M.B.C.S., L.R.C.P., F.Z.S., F.L.S., F.A.S.B., F.R.S., LT.-COL.,
I.M.S.
1933 R. Row, O.B.E., D.SC.
1935 B. Sahni, M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.A.S.B.
-

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D.,
F.B.A., HON. F.A.S.B., I.C.S. (*retired*).
1930 Dr. Felix H. D'Herelle.
1932 Dr. C. Snouck Hurgronje.
1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A.,
M.D., PH.D., F.S.M.F., F.A.S.B.
-

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P., F.R.S.
1933 Dr. Eugène Dubois.
1936 Dr. John Henry Hutton, C.I.E., I.C.S., M.A., D.SC., F.R.A.S.B.
-

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
1932 Dr. Ernst J. O. Hartert, PH.D.
1935 Prof. Leo Semenowitch Berg.
-

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
1934 Isaac Henry Burkill, M.A.
-

INDIAN SCIENCE CONGRESS MEDAL, CALCUTTA.

RECIPIENT.

- 1935 Meghnad Saha, D.SC., F.R.S., F.A.S.B.
-

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1936.

JANUARY.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT.

LT.-COL. R. KNOWLES, C.I.E., B.A., M.R.C.S., L.R.C.P., I.M.S., Vice-President, in the Chair.

Members :

Barua, Hon'ble R.B. K. L.
Bhandarkar, Dr. D. R.
Bogdanov, Mr. L.
Brown, Mr. Percy
Calder, Mr. C. C.
Chakravarti, Mr. C.
Darbari, Mr. M. D.
Dey, Mr. Mukul
Dodds, Mr. W. K.
Ezra, Sir David
Ghuznavi, Mr. I. S. K.
Haq, Mr. M. Mahfuz-ul
Heron, Dr. A. M.

Hobbs, Mr. H.
Hora, Dr. S. L.
Hosain, Dr. M. Hidayat
Howland, Mr. Felix
Jack, Hon'ble Mr. Justice R. E.
Majumdar, Mr. N. G.
Manen, Mr. Johan van
Neogi, Dr. P.
Ow-Wachendorf, Baron W.
Rao, Mr. U. Shanker
Singhi, Mr. Bahadur Singh
Sircar, Mr. Ganapati
Stapleton, Mr. H. E.

Visitors :

Barua, Mrs. K. L.
Barua, Mr. N. L.
Ezra, Lady
Ghuznavi, Miss Z.

Giskra, Baroness
Mandal, Mr. B. M.
Saraswati, Mr. S. K.
Stapleton, Mrs.

and another.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of six presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(1) *Pulley, Owen C.*, Lieut.-Colonel, Indian Army (Retd.), The Palace, Agartala, Tripura State.

Proposer : Sir L. L. Fermor.

Seconder : Johan van Manen.

(2) *Berkeley-Hill, Owen Alfred Rowland*, M.A., M.D., B.Ch. (Oxon.), M.R.C.S. (England), D.T.M. (London), Lt.-Col., I.M.S. (Retd.), 'Station View', Ranchi, B. & O.

Proposer : N. Barwell.

Seconder : Johan van Manen.

(3) *Anderson, His Excellency the Rt. Hon'ble Sir John*, P.C., G.C.B., G.C.I.E., Governor of Bengal, Calcutta.

Proposer: Sir L. L. Fermor.

Seconder: Sir U. N. Brahmachari.

(4) *Brocke, Alfred G.*, D.Sc. (Doctor Philosophiæ Naturalis) (Jena), Branch Manager, Pharmaceutical Department, 'Bayer', 11, Store Road, Ballygunge, Calcutta.

Proposer: Johan van Manen.

Seconder: Sir U. N. Brahmachari.

The General Secretary reported that an application for Institutional Membership had been received from :—

(1) Librarian, Islamia College, Peshawar,

which had been accepted by the Council.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(21) V. Bhattacharya (An Ordinary Member, 1922).

(22) G. F. Berthoud (An Ordinary Member, 1929).

(23) N. J. Judah (An Ordinary Member, 1924).

(24) J. F. Snaith (An Ordinary Member, 1926).

The General Secretary reported that the election of :—

(1) B. M. Sen (Elected on 3-6-35),

had become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Papers were presented, and Exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that a meeting of the Medical Section would be arranged to be held early in February of which due notice would be given to the members.

The following paper was read :—

1. H. E. STAPLETON.—*The Countess Amherst Collection of Assamese Coins.*

In July 1934, Sotheby and Co., the well-known London Auctioneers, advertised for sale, among other lots, a collection of 12 Gold and 72 Silver coins which were listed as 'the Countess Amherst Collection of Assamese Coins'. A MS. description of these coins by Dr. Horace Hayman Wilson, Secretary of the Asiatic Society of Bengal from 1811-1833, was included in the lot, from which it appeared that this collection was probably made shortly after the first Burmese war of 1824-26 at the instance of the then Governor-General, Lord Amherst, who was created Earl Amherst of Arakan after the conclusion of the war. It seems likely, from Dr. Wilson's note

of 1828, that the agent employed by Lord Amherst was Capt. Neufville, Intelligence Officer during the war, and, later, Commandant of the Assam Light Infantry.

The exhibitor was fortunately able to purchase the collection on behalf of the Government of Assam, and subsequent examination showed that it included at least 10 Gold and 38 Silver Assamese coins that were new to the Provincial Cabinet at Shillong. In the accompanying plates, illustrating the paper, the following previously undescribed coins have been figured: Half and Quarter rupees of Siva Simha and Queen Ambika; $\frac{1}{2}$ -rupee of Rajeshvara in Nagri script; two rupees of Gaurinātha with curious dates; $\frac{1}{4}$ -rupee of Bharatha: Mohur of Brajanātha of 1740 *Śāka*; and finally, a $\frac{1}{4}$ -rupee of Jogeshvara of 1743 *Śāka*.

Mr. Stapleton exhibited photographs of certain of the coins that had been taken by the Survey of India for a Plate to illustrate this paper and he briefly described the chaotic condition of Assam during the period (1780-1821) when these coins were struck. This might account for the strange dates on two of the coins.

Specimens of Dr. H. H. Wilson's signature when Secretary of the Society (from the Society's records) were also exhibited to show the identity of these with the signature at the end of the MS. Note of 1828, and Mr. Stapleton presented a typed copy of the Note for record among the Society's papers.

Rai Bahadur K. L. Barua thanked Mr. Stapleton, on behalf of the Shillong Coin Committee, for acquiring the Amherst collection of Assamese coins for the Shillong Cabinet. He said that he has not yet seen the coins and examined them and so he is not in a position to explain the curious dating of some of the coins as mentioned by Mr. Stapleton.

As regards the coins minted by the four queens of king Siva Singha, the fact is that on the advice of astrologers he abdicated the throne in favour of his four queens in order to avoid the effects of *Chattrabhanga Yoga*. During this period the four queens, Phuleswari and Pramatheswari as *Mahishi* (Chief Queen), and Ambika and Sarveswari as *Vallabha* (Beloved one) minted coins.

Both Sarvananda and Bharatha Singha were leaders of the Matak rebellion during Gaurinath Singha's reign. These usurpers also minted coins. With British help Gaurinath was subsequently restored to authority.

Mr. N. G. Majumdar exhibited four rare *Koch* coins recently presented to the Indian Museum coin cabinet, through the intermediary of Mr. Van Manen, by the Archbishop of Calcutta.

Mr. Van Manen explained how these coins had been submitted to him for determination on behalf of His Grace the Archbishop. They had been found in the Jalpaiguri district and His Grace had very kindly acted on his suggestion to present them to the Museum cabinet.

Mr. H. E. Stapleton asked for a speedy description from Mr. N. G. Majumdar of the 4 *Koch* coins that had been obtained through the kindness of the Roman Catholic Prelate. Similar coins were described by Blochmann, about 1875, and it would be a good thing if a note on the new coins could be prepared for publication in the next Numismatic Supplement, together with the paper on the Amherst collection.

Rai Bahadur K. L. Barua said that *Koch* coins shown by Mr. N. G. Majumdar were minted by Nara Narayan and his son Lakshmi Narayan. They were Kings of Kamarupa, which, in the sixteenth century A.D.,

included the western part of the modern Assam valley, as well as Kuch Behar, Jalpaiguri, Rangpur and Mymensingh.

The following exhibit (deferred from the previous meeting) was shown and commented upon :—

1. M. MAHFUZ-UL HAQ.—*A note on a rare MS. of al-Aghrād-al-Tibbiya (an encyclopædia of medical science).*

An extremely valuable manuscript of an elaborate thesaurus of medical science, entitled al-Aghrād-al-Tibbiya, which was compiled by Ismā'il bin al-Ḥusain al-Jurjānī at the instance of Majd-ud-dīn Abū Muḥammad al-Ṣāhib bin Muḥammad al-Bukhārī, a minister of Abul Muẓaffar Atsiz bin Khwārizm-shāh (1127 A.D. to 1156 A.D.). The book is divided into two volumes, called *Bakhsh*.

The MS. was transcribed by a distinguished Persian calligraphist, Sayyid 'Alī Muḥammad al-Ḥusaini, on the 1st Sha'ban, 947 A.H., and contains on the fly-leaf the autographs and seals of (i) the Khān Khānān, 'Abur Raḥīm (d. 1036 A.H.), a grandee of the emperors Akbar and Jahāngīr and of (ii) Fathullāh, son of Ḥakīm Masīḥ-ul Mulk Abul Fath, of Gilān, a well-known physician of the court of the Emperor Akbar.

The note, accompanying the exhibit, contains a brief *résumé* of the contents of the work, a discussion on the value of the manuscript, etc.

The MS. belongs to Khān Bahādur Mawlawī Muḥammad Yāsīn of Arrah.

Professor M. Mahfuz-ul Haq explained his exhibits as follows :—

The book, *al-Aghrād al-Tibbiya wal Mabāḥith al-'Alā'iyya* (الاعراض الطبية والمباحث العلائية) was composed about the middle of the 12th century, A.D., by Ismā'il bin al-Ḥusain al-Jurjānī (d. 531 or 535-1137 or 1141), the author of the celebrated *Dhakira-i-Khwārizmshāhī* and other important works on medical science, which are among the earliest works on Medicine preserved in the Persian language.

The author lived at the court of the Kings of Khwārizm for whom he composed his first great work, the *Dhakira*, in 504-1110-1111. He dedicated it to Qutb-ud-Dīn Muḥammad (490-521-1097-1127), the first King of the dynasty who succeeded with the title of *Khwārizm Shāh*. Some years later, al-Jurjānī wrote the present work, *al-Aghrād*, at the instance of Majd-ud-Dīn Abū Muḥammad al-Ṣāhib bin Muḥammad al-Bukhārī, the talented minister of Abul Muẓaffar Atsiz bin Khwārizm-Shāh (1127-1156, A.D.).

Al-Aghrād is a compendium of medical science and contains a discussion on almost all the subjects connected with the theory and practice of medicine as was known in Irān and Turkeṣtān in the 12th Century A.D. The author is himself conscious of the value and importance of the work as appears from the following remarks which he has made in the Introduction :—

'(Although my book is) small in bulk yet big in contents and although it is small in size yet there is hardly any problem or subject which is outside its scope of treatment; rather I have discussed and deliberated on important and delicate problems and arrived at definite conclusions. This

humble self is bold enough to claim that there is not a single compendium in existence which possesses such perfection as this one.'

The book is preceded by a list of contents which is rather rare in Persian works. It appears from the list that the book is divided into two main sections and each section is subdivided into 19 and 26 *Guftārs* (or, Discourses) respectively, while each *Guftār* is further subdivided into several sub-sections called *bāb* or *juzv*.

Among the subjects discussed in the book are: (1) Definition of the science of medicine, its theory and practice; the *mizāj* (temper); the humours (*akhlāt*) etc. 19 Sections. (2) Identification of 'single bodies', 7 sections. (3) Discussion on 'compound bodies', 17 sections. (4) Discourse on the faculties, 5 sections. (5) Health and ill-health and the rules of their identification, 5 sections. (6) Pulses, 20 sections. (7) Breathing, etc.

The second section, called *بخش دوم* comprises the *Materia Medica*; the names of limbs and their peculiar diseases, their causes; their diagnosis and, lastly, the *Pharmacopœia*.

The MS. was transcribed by an Iranian Calligraphist, Sayyid 'Alī Muḥammad al-Ḥusainī on the 1st Sha'bān, 949 A.H. (1542 A.D.).

The text is written in beautiful *Nasta'liq* within gold-ruled borders and contains two beautiful illuminated head-pieces at the beginning.

Apparently, the MS. came to India during the reign of the Emperor Akbar and was formerly in the possession of Ḥakīm Faṭḥullāh, one of the court physicians of the Emperor Akbar and about whom al-Badā'oni says: 'He has read many works on medicine and his knowledge of Astro-nomy also is great'. The Ḥakīm was the son of a yet more distinguished physician of the Emperor Akbar: Ḥakīm Masīḥ-ud-Dīn Abul Faṭḥ of Gilān. Ḥakīm Faṭḥullāh enjoyed the rank of a commander of 1000 under Jahāngīr (*Tuzuk*, i, p. 34). It appears that Jahāngīr was annoyed with him on account of his sympathy with Khusrāw (*Ma'athir-ul-Umarā*, i, p. 561) and was paraded through the streets of the capital on an ass, with his front towards the tail. He is reported to have been killed by Jahāngīr (C/o. 'A'in, i, p. 425). The autograph note of the Ḥakīm runs as follows:—

اللّٰه اكبر - داخل عاريت خانه اقل عباد فتح اللّٰه بن ابوالفتح گیلانی شد *

Translation :

Allāh-o-Akbar! (This book) entered in the temporary possession of the humblest of slaves (of God), Faṭḥullāh bin Abul Faṭḥ Gilānī.

There are two seals of the Ḥakīm which read *فتح اللّٰه بن ابوالفتح* (Faṭḥullah son of Abul Faṭḥ)

The second autograph is of the great Khān Khānān, Abdur Raḥīm (d. 1036-1627) the great general of the emperor Akbar who was a great patron of poets, scholars, painters and calligraphists, and who had one of the finest libraries that it has ever been the fortune of any Indian grandee to possess.

Unfortunately, a portion of the fly-leaf on which the autograph note appears has been cut out, while a portion is worm-eaten, hence it is not possible to give a complete reading of the note. I have been able to decipher it as follows:—

اللّٰه اكبر - در احمدنگر از قاضی افضل مدد شد - بتاریخ سنه هزار و دو

(or ده) ... محمد [عبد الوحیم] ابن [محمد بیرم]

Translation: *Allāh-o Akbar*. At Ahmadnagar (Qāḍī Afdal presented the book to me), in the year One Thousand and Two (or Ten) (written by) Muḥammad ('Abdur Raḥīm son of (Bayram).

The fly-leaf also contains a seal of the Khān Khānān. It reads as follows :—

خان خانان مرید اکبر شاه

(Khān-i-Khānān, *murīd* of Akbar Shāh).

The MS. belongs to Khān Bahādur Mawlawī Muḥammad Yāsīn, retired Professor of Persian, Patna College.

Mr. H. E. Stapleton suggested that possibly, if the manuscript were examined, the contents would be found to be a summary of Ibn Sīnā's *Al-Qānūn* which was written early in the 11th century A.D.

Mr. Van Manen asked whether the book has ever been published and how many other MS. copies of it were known.

Professor *Mahfuz-ul Haq* replied that he knew of only one complete and one incomplete manuscript of *al-Aghrād* which are both preserved in the India Office Library, London. He was not aware that the work had ever been published.

Professor P. Neogi said :—

The date of the authorship of the manuscript, the 12th century, would be important in writing the history of the Muhammadan system of medicine including alchemy, as practised in India during the Muhammadan period of Indian history. From the period of the Muhammadan conquest of India two parallel systems, Hindu and Muhammadan, of medicine and alchemy prevailed in India, and they are even existing at the present day. The history of the Hindu system is pretty well known and many standard Hindu medical and alchemical works have been published. It is high time that the history of the Muhammadan system should be written by some physician versed in Arabic and Persian. When such a history is written the present manuscript ought to find a proper place in it as it professes to give information on the state of knowledge of medical science in the 12th century.

The following additional exhibits were shown and commented upon :—

2. MAHARAJA P. C. TAGORE.—*Panel representing Sir William Jones translating Shakuntala.*

Maharaja Sir P. C. Tagore has commissioned Mr. K. C. Roy to design a panel representing Sir William Jones, the founder of the Asiatic Society of Bengal, in a manner symbolical of his activities. Mr. Roy has represented Sir William Jones sitting in the open air beneath a plantain tree before a desk with some Sanskrit manuscripts deposited near him. Facing him are three Pandits with whom he is working at the translation of an Indian book. The scene is entitled 'Sir William Jones translating *Shakuntala*' and is a very happily conceived scene commemorating the work of the brilliant scholar to whom the Asiatic Society of Bengal owes its existence. The panel exhibited in the plaster model is to be converted into marble and measures about two by three feet. Maharaja Tagore has announced his intention to present the plaster original to the Society after the completion of the marble copy.

Mr. Van Manen explained the exhibit on behalf of Maharaja Tagore and said that he surely expressed the feelings of the meeting in heartily

appreciating the Maharaja's generosity in presenting the original panel to the Society. Maharaja Tagore was one of the very old members, and it was apt that this artistic representation of the founder of the Society should be preserved in, and adorn, its rooms as a gift of this distinguished veteran in the ranks.

3. SUNDER LAL HORA.—*Manuscript Drawings of Indian Fish and other animals recently acquired by the Asiatic Society of Bengal.*

In March 1935, information was received from Prof. John Percival of Reading, England, that he had in his possession a collection of water-colour drawings of Indian plants, fishes and other animals, but he did not know the name of their original owner. It is, however, known that they were at one time in the possession of the Sibthorp family, whose ancestor was John Sibthorp, Professor of Botany in the University of Oxford towards the end of the 18th century.

These drawings, 146 of fish and 53 of other animals, have now been acquired by the Society.

At the top of each drawing is written in pencil the scientific or the vernacular Indian name. In addition there are notes written in an old system of shorthand. Professor Percival compared these drawings with other drawings of plants and animals in the British Museum and found that 'Notes written in the same kind of shorthand as on mine, I have discovered on several of the drawings of Indian plants bequeathed to the British Museum (Bloomsbury) by General Hardwicke; the comments there make it clear that they were not written by Hardwicke, but apparently by the owner of my collection of drawings'.

The paper of most of the drawings has a water-mark dated 1794, while some are dated 1798. This shows that the drawings were made towards the end of the eighteenth century. From a comparison of the writings of Hardwicke, Martin, Fleming, Buchanan, Roxburgh and other Indian naturalists of that period, Prof. Percival concludes that the writing on his drawings is not that of any of these.

From a remark by Hardwicke in his 'Narrative of a Journey to Srinagur' (*As. Res.*, VI, p. 367, 1796) Prof. Percival concluded that they may have belonged to Mr. R. Bruce, but he could not find much information regarding this gentleman. Professor Percival's guess may prove to be true, for there is no doubt that Hardwicke and Bruce were close friends, one of the Indian fish is named by Hardwicke as *Balitora brucei* and published by Gray under that name. From enquiries made at the Imperial Record Department, it is learnt that 'one Mr. Robert Bruce applied on the 5th August, 1792, for the necessary passports to proceed along the river with the purpose of visiting certain places up-country. This Robert Bruce was an Ensign at Fort William, became Captain in 1786, Aide-de-Camp to Col.

G. B. Eyres in 1787, Secretary to the same in 1791, Major in 1792 and Lt.-Col. in 1799'.

Now that the drawings are available in India, their history will be worked out in greater detail and the results presented to the members of the Society in due course. The greatest importance of these drawings lies in the fact that they add a new chapter to the history of Indian ichthyology. So far Hamilton (once Buchanan) has been regarded as the first person who made a systematic study of the freshwater fishes of India, but the drawings under report show that someone had an equally keen interest in the study of these fishes before him.

With the new acquisition, the Asiatic Society of Bengal now possesses a unique collection of manuscript drawings of Indian fishes of great historic value.

All the MS. drawings of fish in the possession of the Society were exhibited.

Dr. Hora explained his exhibit in detail and passed round for inspection various volumes, containing manuscript drawings of fish, belonging to the Society's library.

Mr. H. E. Stapleton suggested that it might be desirable to enquire whether the Bruce, who had been mentioned as the possible artist of the first drawings, was connected with the planter brothers of Dibrugarh, Assam, whose names were commemorated in the Bruce Foundation for Anglo-Indian girls, the fund of which is administered by the Director of Public Instruction, Bengal.

4. THE GENERAL SECRETARY.—*A palm-leaf Manuscript of the Dronaparvan of the Mahābhārata in old Bengali script.*

Mr. Van Manen said that of late he had acquired several interesting Sanskrit MSS. for the Society. In due course descriptions would be published. In this meeting he would exhibit one particular MS. which was of special interest to Bengal. It was a complete Dronaparvan, the Sanskrit text in Bengali script on palm leaves. The MS. was by far the oldest Mahābhārata MS. in the possession of the Society. Though the Society's collection contained 240 Mahābhārata MSS. most of them, if not all, were probably at least two centuries younger than the present MS. The speaker would not give any further details at the present occasion which was only utilised to draw attention to the interesting acquisition.

Mr. Chintaharan Chakravarti said :—

This is a valuable accession to the MS. Library of the Society which already possesses a number of old dated MSS. in the Bengali script, facsimile pages from some of which have been reproduced by the late Raja Rajendralal Mitra in his *Notices of Sanskrit MSS.* Though not dated the present MS. appears, on a cursory glance, to be quite old, perhaps from four to five hundred years. Discovery of old MSS. of the epics and Purāṇas in the Bengali script has of late been reported from different parts of Bengal. I have described two MSS. of the *Hariṣaṃsa* and a section of the *Mahābhārata (Adīparvan)* copied in the latter half of the fifteenth and the beginning of the sixteenth century (*Descriptive Catalogue of Sanskrit MSS in the Varāṅsi Sāhitya Pariṣat, Calcutta, 1935, Introduction p. V*). The Dacca University Library also possesses a number of similar MSS. (*Indian Antiquary, 1926, p. 121*).

These MSS. are specially important in view of the fact that old Bengali MSS. have occasionally been found to contain more correct and

better readings. It will be worth while to compare carefully the paleography of the MS. acquired by the Society with that of the old dated MSS. in the Society to determine its date more definitely.

Rai Bahadur K. L. Barua inquired whether the manuscript contained a colophon.

Mr. Chakravarti replied that there were only ordinary chapter colophons, but no date, and no name of the scribe, were given.



FEBRUARY.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 3rd February, 1936, immediately after the termination of the Annual Meeting for the election of Ordinary Members and the transaction of business.

PRESENT.

LT.-COL. R. KNOWLES, C.I.E., B.A., M.R.C.S., L.R.C.P., I M.S., F.A.S.B., Vice-President, in the Chair.

Members :

Barwell, Lt.-Col. N.
Bhose, Mr. J. C.
Brahmachary, R.B. S. C.
Calder, Mr. C. C.
Chakravarti, Mr. C.
Chatterji, Dr. S. K.

Chopra, Brevet-Col. R. N.
Hosain, Dr. M. Hidayat
Hora, Dr. S. L.
Majumdar, Mr. N. G.
Manen, Mr. Johan van
Mukherjee, Dr. J. N.

Singhi, Mr. B. S.

The minutes of the last meeting were read and confirmed.

The General Secretary announced that the presentation of books, etc., received during the last month would be exhibited in the next Monthly Meeting.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(5) *Catto, Sir Thomas, S., Bart., Merchant and Banker, Andrew Yule & Co. Ltd., 8, Clive Row, Calcutta.*

Proposer : Sir Lewis Fermor.
Seconder : Johan van Manen.

(6) *Seetharamiah, P., Clerk, District Commercial Office, B.-N. Ry., Khargpur, Midnapur District.*

Proposer : S. C. Seal.
Seconder : M. Z. Siddiqui.

(7) *Flury, Ernest Charles, Merchant, Manager of Messrs. Volkart Brothers, 11, Clive Street (Post Box No. 606), Calcutta.*

Proposer : Johan van Manen.
Seconder : R. Chanda.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

- (1) Shrinarayan Chokhani (An Ordinary Member, 1926).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that :

- (1) Lt.-Col. O. C. Pulley,

who was elected an Ordinary Member in the last meeting has withdrawn his application for membership.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that a joint meeting of the Medical Section of the Society, the Calcutta School of Tropical Medicine and the All-India Institute of Hygiene and Public Health would be held in the Lecture Theatre of the Calcutta School of Tropical Medicine, at Central Avenue, on Tuesday, the 4th February, 1936, at 3 P.M., when the following paper would be read :—

The Mechanism of the Hæmolysis in malarial hæmoglobinuria of Monkeys by Dr. K. V. Krishnan.



MARCH.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, KT., F.Z.S., M.B.O.U., Vice-President, in the Chair.

Members :

Brahmachari, Sir U. N.
Brown, Mr. Percy
Calder, Mr. C. C.
Chakladar, Mr. H. C.
Chakravarti, Mr. C.
Chanda, R. B. R.
Ghose, Mr. T. P.

Guha, Dr. B. S.
Heron, Dr. A. M.
Hobbs, Mr. H.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Manen, Mr. Johan van
Prashad, Dr. Baini
Wadia, Mr. D. N.

Visitors :

Acharji, Mr. M. N.

Hafiz, Mr. H. A.
Saraswati, Mr. S. K.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nine presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(8) *Thomas, Richard Arnold Shyring*, Assistant, Messrs. J. Thomas & Co., 8, Mission Row, Calcutta.

Proposer : R. Knowles.

Seconder : J. Gladstone.

(9) *Chatterjee, Manomohan*, B.Sc. (Cal.), A.R.C.S., D.I.C., Ph.D. (Lond.), Professor of Geology, Presidency College; 170/2, Lower Circular Road, P.O. Entally, Calcutta.

Proposer : D. N. Wadia.

Seconder : A. M. Heron.

(10) *Chatterji, Mrs. Tuhinikā*, M.A., Kāvya-tirtha, Research Scholar, Examiner, Calcutta University; 5, Wood Street, Calcutta.

Proposer : Sir U. N. Brahmachari.

Seconder : Johan van Manen.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(1) Rev. Sir N. D. Beatson-Bell (A Life Member, 1895).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(2) J. N. Gupta (An Ordinary Member, 1928).

(3) M. N. Kanjilal (An Ordinary Member, 1924).

(4) S. C. Mallik (An Ordinary Member, 1928).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported the constitution of the various standing Committees of the Society to be as follows :—

Finance Committee :

President	}	<i>Ex-officio.</i>
Treasurer		
General Secretary		
Dr. J. N. Mukherjee.		
Dr. Baini Prashad.		

Library Committee :

President	}	<i>Ex-officio.</i>
Treasurer		
General Secretary		
Philological		
Jt. Philological		
Biological		
Phys. Science		
Anthropological		
Medical		
Library		

Publication Committee :

President	} Secretaries	} <i>Ex-officio.</i>
Treasurer		
General Secretary		
Philological		
Jt. Philological		
Biological		
Phys. Science		
Anthropological		
Medical		
Library		

Papers were presented and Exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared all candidates duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The following paper was read :—

1. SARASI KUMAR SARASWATI.—*Notes on a fourth Tour in the district of Dinajpur.*

Report on the antiquarian remains found at various villages in the district of Dinajpur: Itahar, Bhadrasila, Bankur, Sonapur, Yogipara, Baigungaon, Shadea, and Dhulohar.

Summary : It is apparent that the area traversed during this short trip was once full of ancient and prosperous settlements adorned with imposing palaces, beautiful temples, and large tanks. Its ancient magnificence is now a thing of the past, and its history has been lost and buried in oblivion. The whole tract is now a mere woodland of ruined mounds and half-silted-up tanks. The relics that lie above ground fully demonstrate the antiquity and importance of the different sites, which, if properly explored and excavated, would yield valuable and interesting results for the history of this part of the country, and, it may be, even for the history of Bengal.

Mr. Saraswati said : -

The following report on the antiquarian remains in the western part of the Dinajpur district concludes the two previous papers, embodying the results of three previous tours, published in an issue of the Journal of the Society. In the present trip as many as 11 or 12 places have been visited, each bearing an ancient appearance with its jungle-clad mounds full of bricks and stones, remnants of old and large tanks and large number of stone images and fragments of images lying scattered throughout. To name only a few, there is the village of Itahar, which literally means the 'string of bricks', perhaps from numerous old bricks that are to be had all around. It was a large and flourishing village and several ruined mounds, tanks and images are now all that remain of its ancient splendour. Of the many interesting images mention should be made of the colossal image of Vishnu of

exquisite decorative workmanship recovered in 1933 for the Indian Museum and the pedestal of an image of Vishṇu of very rare type, acquired for the Rajshahi Museum. The last represents Yogāsana Vishṇu, an extremely rare type, of which no other specimen, so far as I am aware, have been noticed from Bengal. Next there is the village of Bhadrasila, only a mile to the east of Itahar, undulating all through and containing large but low mounds and abundance of north and south tanks. Of the images lying uncared for in the different village *thāns* I should mention one of Śiva Aghora-Rudra and another, a fine but mutilated image, of the river goddess Gaṅgā. The name Bhadrasila is interesting and there is no doubt as regards its antiquity. The extensive elevated tracts as hard as rammed concrete from accumulation of brickbats on the surface, the finds of numerous old bricks on a little digging, fragments and images lying scattered around the village, abundance of north and south tanks and lastly the peculiar name of the village, which at once brings to our mind the famous Takṣasila, all point to an unmistakable antiquity of the place of which further traces and materials for its ancient history are expected to come up on a proper exploration and excavation of the site. Bankur is another village, some 3 miles north-east of Itahar and it possesses a life-size image of Sūryya, remarkable for its elegant execution and perfect preservation. Sonapur, a little to the north of Bankur, is a large village containing several mounds, remains of brick-paved streets and a rather fair number of images. Of these, two sandstone images of Sūryya of early Pāla period, an image of Revanta, the son of Sūryya, worshipped by the local Muhammadans as Ghodapir, and a fine black basalt image of Kārttikoya, the god of war, may be mentioned in this brief note. Next I should mention the village of Yogipara, containing several big images, of which one of the fierce god Śiva-Bhairava, worshipped as Śmaśānakalikā, and another of Buddha locally known as 'Bhairo Bābā' and with a reputation for curing deafness, are worth noticing here. Shadea, another big village on the river Chiramati, has also an ancient appearance with small mounds and brick-strewn undulating tracts. The two shrines—one on a mound by the river bank and the other within the village—contain innumerable images and fragments. Last, though not the least, I come to the village of Dhulohar, 4 or 5 miles to the west of Itahar. The site—a vast elevated area of about 2 miles by 3 miles covered with dense jungle—appears to be an important one. The slopes of this elevated tract are gradually coming under plough and are strewn over with brickbats and potsherds. The old people of the locality affirm that in the jungle there are numerous old tanks and innumerable bricks and stones. Just to the east of the site there is a vast tank, about half a mile in length. From it two ditches, one from the northern end and the other from the southern, issue forth and join the Kulik river, running by the west side of the site, thus encircling and forming a sort of fortification for the entire area. Paved brick on edge streets can be traced and there are the remains of a *pucca ghaṭ* on the river bed. A small mound on the western slope of the site, recently cleared by the villagers, and another on the opposite bank of the river are both full of bricks and stones. According to local tradition the site of Dhulohar was the capital of one Dhulpat Rāj. The highest peak of that elevated site is known to be the palace of that monarch. Indeed, the tradition is so strong that it is said that an image of Vishṇu found in that area bore the name of Dhrupāl Rājā. Dhulpat Rāj, they say, is the corrupted form of Dhrupāl Rājā, who was alleged to be connected with the Pālas of Bengal. The image in question, however, could not be found and there are grave doubts whether any such image bearing such a name had ever been found.

Only a small fraction of the remains can but be noticed in this note and before I finish I should like to draw your attention to the utterly deplorable state in which the relics are lying in these inaccessible sites. A prey to the inclemency of climate, weather and rank vegetation of the

province and to the sheer vandalism of man, these priceless treasures are gradually being lost to us. An instance or two would suffice to show how they gradually disappear. The beautiful image of Gaṅgā at Bhadrāsila was to a great extent entangled in the roots of a tree and it was with much difficulty that I was able to extricate it. But for this timely intervention the image, I am afraid, would have broken to pieces under pressure of the tree within a year or two and a fine specimen of Bengal art would have been lost for ever. The people are so superstitious and apathetic that they would not do anything to save their deity from ruin and destruction. To them the interference on my part to extricate the image was a sacrilege and instead of helping me in the least the crowd that gathered waited breathless for some miraculous thing to happen to prevent me from performing this irreligious act. Let me cite another case of wanton destruction. In my third trip (1933) I visited Surohor, 2 miles south of Shadea, and Mahendra, just opposite to Surohor beyond the river, where I found numerous sculptures of which a few proved to be quite unique. In the present trip (1935) I again visited the two places and was shocked to find almost all the pieces, that I found entire during my former visit, battered to pieces. Strango to say, the local people who regard these stones as so many properties of the village and would not allow any one to remove them elsewhere, could give no information as to who perpetrated this heinous crime. The almost total destruction leaves no doubt that it was intentional and the work of some modern fanatic. It is apparent that the iconoclastic spirit of the early invaders are not yet dead. Under these circumstances—inclemency of nature and inclemency of man—the relics lying scattered and uncared for in the distant villages are being lost to us and it is time that we should strive in earnest for their acquisition to a public collection or at least for their better preservation and protection.

It is apparent that the area traversed during this short trip was once full of ancient and prosperous settlements adorned with imposing palaces, beautiful temples and large and clear tanks. Its ancient magnificence is now a thing of the past. The whole history has been lost and buried in oblivion. The whole tract is now a mere woodland of ruined mounds and half-silted-up tanks. The relics that lie above ground fully demonstrate the antiquity and importance of the different sites, which, if properly explored and excavated, are expected to yield valuable and interesting results for the history of this part of the country and, it may be, even for the history of Bengal.

Mr. *H. Hobbs* asked what reason could be given for the ruin that seems to have come over most parts of India, where beautiful monuments are discovered in out-of-the-way places. Why is it that in India marble palaces seem to breed mud huts? The ruin could hardly have been effected by invading armies. Was it due to agricultural depression, disease, or the neglect, due to the load of the climate being too heavy for the people to bear?

Mr. *Saraswati* replied that in Java, which had also been a prey to foreign invasions there was no such total ruin as in Bengal. In his opinion foreign invasions were not the sole cause of the ruin and disappearance of ancient Bengal monuments. In Bengal, natural agencies such as humid climate, excessive rainfall, change in the course of the rivers, rank vegetation, and also the fact that in Bengal ancient edifices were mostly built of bricks, contributed more or less to the desertion and ruin of older monuments. But there is still the factor of the foreign invaders, who pulled down many an edifice, and razed to ground many ancient cities for building materials, to account for the loss and ruin of older monuments.

Mr. *Van Manen* asked whether all the sculptures mentioned in the paper had been acquired by a public museum and whether there were any still lying in private ownership.

Mr. *Saraswati* replied that some of the sculptures have been collected for the Rajshahi Museum, and there are numerous others lying uncared for in the different village *thāns*. In each ancient site there is a *thān* or two where every image found in the locality is deposited. The images are thus under so-called worship and, as such, too sanctified to be removed elsewhere. In fact there is no proper worship, no proper arrangement for their protection from the sun, rain or other natural agencies or even from the vandalism of man. The local people would not allow anyone to remove them elsewhere. It is proper that the Archæological Department should strive to acquire them for a public museum.

The following exhibits were shown and commented upon :—

1. BAINI PRASHAD.—*The Rufous-necked Hornbill.*

In Vol. XVIII, part I, of 'Asiatick Researches' for 1829, B. H. Hodgson, the father of Vertebrate Zoology in India, described in detail the Rufous-necked Hornbill under the name *Buceros nepalensis* and published two coloured plates of this beautiful bird. Later Blyth, the well-known Curator of the Society's museum, in 1847 exhibited mounted specimens of males and females of this species. The author during a recent tour in the Barail range of Manipur obtained a specimen of a full-grown male of this species at Nungba. This specimen shows certain differences in the oblique black grooved bands extending across the basal portion of the beak. The specimens were exhibited together with some other specimens from the collections of the Zoological Survey of India. The species now known as *Aceros nepalensis* has a wide distribution in Nepal, Bengal, Assam, Manipur, Lushai Hills, mountains of Burma, Karenni up to Mount Muleyit, Tenasserim, and Siam. It has also been recorded from Siam and Tonkin.

2. BAINI PRASHAD.—*Kabui Naga cloths.*

In the April meeting of the Society of last year a variety of Naga spears, daos, and clothing used by three important Naga tribes, *viz.*, the Angami, the Sema, and the Ao, casually collected during a zoological survey of the Naga Hills in 1935, were exhibited. In continuation of the same survey a party recently visited the Naga Hills and the Barail mountain range which separates the Manipur State from the district of Cachar. This latter area is mainly inhabited by the Kacha Nagas of whom Kabuis form a very important element ; some Kuki settlements are also to be found in this area. A few samples of the clothing used by the Kabui Nagas, both men and women, which were collected during this tour, were exhibited and attention was directed to the remarkable change both in colour and patterns of the cloths of the Kabuis as compared with those of the other three tribes, samples of which were previously exhibited.

Dr. *Baini Prashad* said that both the exhibits are from the Manipur State which is situated to the east of the Province of Assam and to the south of the Naga Hill district. The collections exhibited were made on the journey from Imphal, the capital of the Manipur State, to Cachar

through the Barail Range. This journey is of considerable interest, as the bridge path along this route crosses 5 considerable mountain ranges covered with forest and separated from one another by deep river valleys. 'It possesses all the attractions which are conferred by stately timber, luxuriant undergrowth of bamboos, creepers and giant ferns, bold cliffs, and rivers rushing through wild gorges.' These hills are the home of the Kacha Nagas of whom the Kabui tribe is the predominant type; a few Kuki settlements are also interspersed in this area.

Sir David Ezra said that he was personally interested in the exhibit as he had made a special study of this interesting bird.

He referred to the extraordinary instinct which made the male imprison the female in a cavity in a tree trunk during the breeding and rearing period, feeding her through an aperture in the wall of the cavity. Though the subject was a little delicate, he had also to refer to the fact that the female bird kept the cavity clean by depositing its droppings outside through the feeding hole. This was a marvellous example of the development of natural instinct. The young were never allowed to leave the nest till they were old enough to go out and protect themselves independently.

Rai Bahadur R. Chanda enquired whether the fat of *dhanesh pakhi*, sometimes found in Bengal, is said to have the medicinal properties and that it cures some puerperal diseases.

Dr. Prashad replied that it is not the fat but an oil, commonly known as the *dhanesh oil*, which is supposed to be a specific against rheumatic pains. The flesh and bones of this bird are also supposed to have similar medicinal properties.

Mr. Van Manen enquired whether a Toucan is a hornbill?

Dr. Prashad replied that the Toucans belong to the family Rhamphastidæ, while the hornbills to the family Bucerotidæ. The Toucans are Neotropical birds, the majority of them inhabit the northern part of South America, especially Guiana and the valley of the Amazons. Some species also occur in Mexico and Central America.

3. CHINTAHARAN CHAKRAVARTI.—A shorter version of the *Kaulāvalinirṇaya*.

Versions of many an old and popular text, which have undergone considerable changes specially through interpolations from time to time, are quite well known in the history of Sanskrit literature. It is rather rarely that we meet with such instances in the case of mediæval and comparatively later works, especially if they are of a technical nature, not expected to be quite popular. A shorter version of the *Kaulāvalinirṇaya*, a Tantric digest by Jñānānanda with the epithets *Giri* and *Paramahansa* as recorded in the larger version published in the Tantric Texts Series of Arthur Avalon (Sir John Woodroffe), therefore, is of some interest. This version is found with the name *Kaulāvali* in an incomplete manuscript of the work belonging to the Asiatic Society of Bengal which begins from line 50 of chapter 2 of the larger version with occasional omissions here and there. The arrangement of the chapters and the introductory verse giving the name of the author are different in the two versions. It would appear that the version as recorded in the Society's manuscript represents the original which was revised, elaborated, and given almost a new shape at some later time.

Mr. Chintaharan Chakravarti said :—

The Kaul&valnirṇaya—a metrical Tantric compilation held in great reverence by the Kaula worshippers whose rites and practices are described here—has been printed twice in Calcutta. MSS. of the work however are comparatively rare. The MS. of the Asiatic Society differing from the printed editions to a very great extent was found on a close examination to contain a shorter version of the work generally covering two chapters of the printed editions in one chapter of the MS. Two more short versions of the work appear to be preserved in two MSS. noticed by Kielhorn and H. P. Shastri. The work appears to have swelled in body in course of years presumably at the hands of generations of disciples of the saintly author until it was more than doubled in the manuscripts on which the printed editions were based.

Mr. Van Manen said :—

That the example of demonstrable series of expansions of a Sanskrit text was of great interest, as the problem involved appears in all the literatures of the world. In the book of Genesis nominally written by Moses, the author's own death is described. So the description cannot be from the hand of its subject. In all Chinese literature the problem arises at every turn. In the Lünyü traditions concerning and utterances by Confucius go hand in hand. In Liehtsze much is attributed to the school of that sage and not to himself. In Oriental literature there are two types of modification of the originals, abbreviations and expansions. In Mohammedan literature the abbreviations are numerous and well known. There are even abbreviations of abbreviations. Of late the expansion of the original Bhagavadgītā has been discussed by scholars. In the Mahābhārata it is one of the major problems of textual criticism. In Ancient and Buddhist philosophy it is often difficult to say whether an elaborate work has been written by the author in commentary of his own root ślokas, or whether the ślokas have been summarized after the author wrote his previous exposition. The examples in various ancient and modern literatures were too numerous to be mentioned, but the problem itself was one of the greatest importance, and wherever a clear example could be found of either successive stages of abbreviation or successive stages of elaboration of a work under clearly provable circumstances, such an example should be studied and analyzed for whatever conclusions it might warrant.

4. JOHAN VAN MANEN.—*A recent detailed map of Abyssinia.*

The happenings in Abyssinia have created a demand for detailed geographical information concerning the country. The maps published in local newspapers are defective and insufficient for one to understand the topographical aspects of the war news. Current atlases are similarly lacking in necessary detail. Towards the end of 1935 the Touring Club Italiano in Milan published a map of Oriental Africa, containing Eritrea, Abyssinia, and Somaliland, on a scale of 1,350,000 ; 1 cm.=35 km.

The map, which does not seem to be locally available, is exhibited. It contains practically all the names mentioned in recent despatches and is admirably clear.



APRIL.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.A.S.B., Vice-President, in the Chair.

Members :

Agharkar, Dr. S. P.
Biswas, Mr. K. P.
Bose, Mr. M. M.
Brown, Mr. Percy
Chanda, Rai Bahadur R.
Chatterji, Dr. S. K.
Driver, Mr. D. C.
Haq, Mr. M. Mahfuz-ul
Hobbs, Mr. H.

Hora, Dr. S. L.
Hosain, Dr. M. H.
Manen, Mr. Johan van
Mukherjee, Dr. J. N.
Mullick, Mr. M. L.
Olpadvala, Mr. E.
Rahman, Mr. S. K.
Sen Gupta, Mr. N. C.
Sirkar, Mr. Ganapati
Stagg, Lt.-Col. M.

Visitors :

Chanda, Mr. K. L.

Chanda, Mr. R. P.
Scallan, Mr. F. C.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nine presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(11) Rankin, Everett H., M.B., Assistant General Manager for India, The Standard Vacuum Oil Co., 6, Durgapore Park, Alipore, Calcutta.

Proposer : Johan van Manen.

Seconder : M. Hidayat Hosain.

(12) White, John Campbell, American Consul General, 9, Esplanade Mansions, Calcutta.

Proposer : E. M. Groth.

Seconder : Johan van Manen.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(5) M. A. Korní (An Ordinary Member, 1930).

(6) Rev. J. Pessein (An Ordinary Member, 1930).

(7) C. A. Cookson (An Ordinary Member, 1935).

The General Secretary reported that the election of—

(1) Sukumar Chakravarti (elected on 2-9-35),

(2) A. J. Faruqi (elected on 2-9-35)

had become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Papers were presented and exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of the Ordinary Members and declared that the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The following paper was read :—

1. N. C. SEN GUPTA.—*Putrikāputra, or the appointed Daughter's Son in Ancient Law.*

In this paper the author gives a brief history of the evolution of the Putrikāputra in Hindu Law. He points out that the Vedic Ārya did not recognize any son except an *aurasa* one. Gradually however on account of changes in social organization, when a practice grew up of sonless persons having their daughters about them, the recognition of the appointment of a daughter came by the absorption of a custom of matriarchal or semi-matriarchal non-Āryas.

This practice gradually led to the recognition of the daughter's son as a kinsman entitled to inherit and to offer *piṇḍas*. When this stage was reached the usefulness of the Putrikā ceased and already by the end of the period of the Dharmasūtras, the Putrikā and her son ceased to exist and the daughter and her son as such took their place in law. In the metrical Smṛtis as well as in the commentaries the Putrikā does not appear as a live institution.

The author also discusses the legal effect of Putrikākaraṇa on her status regarding gotra and *piṇḍa*. The Smṛtis are silent on these points, but the commentaries have academic discussions which bring out : (1) that in regular Putrikākaraṇa the full ritual of marriage was not performed ; (2) that where a putrikā was so made she remained in her father's gotra and did not pass to her husband's gotra ; (3) and that where the full ritual including *sampradāna* was made, the daughter passed to her husband's gotra.

The following exhibits were shown and commented upon :—

1. RAMAPRASAD CHANDA.—*Three small Brass Images from the Chittagong District.*

These three brass images with a few other antiquities were dug out of a tank at Patakot, P.O. Zorawarganj, District Chittagong, in 1935, and collected by Mr. Sasanka Sekhar Sarkar of the Bose Institute.

(1) A seated image of Gaṇeśa, $1\frac{1}{8} \times 1\frac{1}{8}$ inches. The modelling is characterized by sensitiveness and elasticity and the figure appears to be swinging.

(2) Seated two-armed goddess with a child, $3 \times 1\frac{1}{8}$ inches. The figure of the mother is lively and her face even in this damaged state does not lack expression. The composition is perfectly balanced by the ingenious use of the motive of cow with calf to the left. Note the spear-head with two small arms on the head of the goddess. The same motive is found at the top of the halo.

(3) Sadāśiva seated cross-legged, $3\frac{3}{8} \times 3$ inches. The most remarkable feature of the image is the spear-head with a hook on either side on the crown. This reminds one of decorative heads crowned with trident on the waggon-roof of a monolithic temple of Śiva at Mahābalipuram (in the Chinglepet District of the Madras Presidency) and of the figures of deities crowned by tridents carved on some of the seals recovered from Mohenjo-daro and Harappa. One of these deities on a seal from Mohenjo-daro shows three heads and is seated cross-legged like Sadāśiva. Therefore this small image may be recognized as a link in the chain that connects historic with pre-historic India.

Sadāśiva may be assigned to the twelfth century A.D., and Gaṇeśa and the mother are perhaps earlier.

Mr. Percy Brown called attention to the fact that the images were not all of brass, one, and possibly two, were of copper. This brought up the subject of a broad division of Asiatic metal-work by means of the metal employed, for instance brass was mostly used in the central regions of India, copper towards the north-east and in Nepal and Tibet, while bronze showed influence of the Far East, and so on.

The largest of the three exhibits, which was of copper, was interesting on account of the shape of the plaque forming its background, as this was pointed at the apex; it also contained a projection and a receptacle at its back for attaching it to some larger object, such as a shrine. As regards the pointed shape of the plaque, this recalled the shape of the innumerable stone 'steles' carved with figures found on most historic sites, as they were evidently made in this form to fit into arched niches provided for their accommodation in the walls of large brick or stone monuments.

On one of the metal images forming the exhibit, the one containing the cow suckling a calf, there was an object in front of these animals, which might be a manger, recalling the manger (?) in front of the bull images of Mohenjo-daro.

2. JOHAN VAN MANEN.—A Pre-historic Iron Implement from Malacca.

Dr. P. V. van Stein Callenfels, the Dutch archæologist, who sent this implement wrote as follows :—

From time to time a peculiar iron implement is found in the peninsula of Malacca, concerning which no one knows the use or manner of application. The Malays call it *Tulang mawas* which means 'bone of orang utan'. They say that in olden

times there lived large apes with iron bones and an iron spur at the elbow, and that this is what constitutes the implement.

In connection with the find spots I have always supposed that it may have been an old type of miner's instrument used by early tin miners. It is not, however, clear to me how that should have been.

A short time ago, whilst investigating a few so-called 'slab graves', graves built up out of stone slabs, which are an offshoot of the megalithic culture occurring in the Malay peninsula, in Southern Sumatra and in Java, we found an appreciable collection of such instruments which make it clear that they are connected with the slab grave builders, and have been probably introduced by them.

These slab graves are found along the rivers running into the Strait of Malacca and are therefore evidently relics of immigrants who moved inland along these rivers; perhaps searching for tin. In my opinion the mining hypothesis is therefore not without foundation. I believe to discern a certain Indian influence exercised at the end of the pleistocene, upon this part of Further Asia, but after this all Indian influence ceases and everything is here derived from south-west China, *via* Siam.

These slab graves, which I feel inclined to date about the beginning of the Christian era, bring us for the first time again Indian influence which soon expands widely and leads to Hinduisation of Sumatra, Bali, Indo-China, and so on.

If this be the case, the iron instrument must have an Indian origin and there may be a possibility that India may bring a solution of the questions as to for what purpose and how it was used.

I am sending a specimen from the Raffles Museum, which was found on the Sungei Plus, the Plus river, in Perak. Would it be possible to obtain any information regarding the instrument? Are any similar instruments known from olden times, or even perhaps still in use somewhere? In the latter case, it would be important for us to obtain a similar modern instrument, complete with handle.

The implement was exhibited and a request for consideration and discussion was made.

3. M. HIDAYAT HOSAIN.—*Kharīdat al-Qaṣr*.

On account of the lateness of the hour this exhibit was postponed to the next meeting.



MAY.

An Ordinary Monthly Meeting of the Asiatic Society of Bengal was held on Monday, the 4th, at 5-30 P.M.

PRESENT.

PERCY BROWN, Esq., A.R.C.A., F.A.S.B., Member of Council, in the Chair.

Members

Bogdanov, Mr. L.	Ghuznavi, Sir A. H.
Bose, Mr. M. M.	Groth, Mr. E. M.
Chakravarti, Mr. C.	Haq, Mr. M. M.
Chatterji, Dr. S. K.	Hosain, Dr. M. H.
Driver, Mr. D. C.	Manen, Mr. Johan van
Flury, Mr. E. C.	Mullick, Mr. M. L.
	Mr. Rahman, S. K.

Visitor :

Bose, Mr. L. M.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(13) *Husain, Syed Asaf*. M.A., LL.B., Lawyer, 3, Old Court Road, Lucknow.

Proposer : M. Hidayat Hosain.

Seconder : M. Mahfuz-ul Haq.

(14) *Sarawgi, Chandmall*, Member, Gauhati Municipal Board, Partner in the firm of Saligram Chunilal Bahadur & Co., Gauhati, Assam.

Proposer : M. Hidayat Hosain.

Seconder : S. L. Hora.

The General Secretary reported that an application for Institutional Membership had been received from :—

(10) The Principal, Patna College, Patna,
which had been accepted by the Council.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(2) Dr. C. J. H. Nicolle (An Honorary Fellow, 1929).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(8) N. E. Parry (An Ordinary Member, 1929).

(9) N. L. Kapoor (An Ordinary Member, 1935).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that the following had withdrawn his application for membership :—

(2) P. Seetharamiah (Elected on 3-2-36).

Papers were presented and exhibits were shown and commented upon, as detailed below.

The Chairman announced the result of the ballot for the election of the Ordinary Members and declared that the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had been arranged to be held during the current month.

The following paper was read :—

1. M. HIDAYAT HOSAIN.—*Islamic Apocrypha (Tadlis)*.

All literary activities of the whole Islāmic world are rooted in the Qur'ān and the *Ḥadīth*. The Qur'ān is being preserved by innumerable adherents of Islām by committing it to memory and as such, there is no possibility of any addition to, omission from, or alteration of a single word in the text of the Qur'ān; but the *Ḥadīth* covers a vast literature and the early Islāmic scholars devised means and rules to establish its authenticity.

Tadlis is the subject matter of this paper and it removes the *Ḥadīth* from the category of *Ḥadīth Ṣaḥīḥ* (sound *Ḥadīth*) to that of the unauthenticated *Ḥadīth*.

According to the Arabic lexicon, *Tadlis* means 'to sell an article concealing its defects'; and according to the traditionists it means 'to conceal the defects of the *Ḥadīth* either in the text, in the chain of narrators, or in the source', i.e. the teacher from whom it is learnt.

Tadlis is divided into three kinds—(a) *Tadlis* in the chain of narrators, (b) *Tadlis* in the text, and (c) *Tadlis* in the teacher, from whom the tradition is learnt.

The author has dealt in detail with the three kinds of *Tadlis* and their subdivisions. He has also mentioned the names of the authors who have contributed to the *Tadlis* literature.

Mr. Percy Brown enquired what relation the *Aḥādīth* bore to the *Sunna*.

Dr. Hosain replied that the word *Ḥadīth* meant primarily a communication or narration in general whether religious or profane, then it had the particular meaning of a record of actions or sayings of the Prophet and his Companions. In the latter sense the whole body of the sacred Tradition of the Muhammadan was called the *Ḥadīth*.

Sunna was properly the way one was accustomed to go, i.e. use and wont, ancient tradition. But in Islām *Sunna* could no longer consist in following the customs and usages of heathen ancestors. The Moslem community had to hold up a new *Sunna*. Each believer had to take the conduct of the Prophet and his Companions as a model for himself in all affairs of life.

The Prophet's *Sunna* in the sense of his words, action and silent approval was fixed orally and in writing in the *Ḥadīth*. In theory the conception of *Sunna* and *Ḥadīth* was separate but in practice they often coincided, which might be due to the fact that some of the Collections of *Ḥadīth* had the title *Sunna* (e.g. the Collections of Abū Dā'ūd, Ibn Māja, and an-Nasā'ī).

Mr. M. M. Bose enquired of the sure test of the authenticity of a *Ḥadīth* and also of the reliability of a narrator.

Dr. Hosain replied that according to Muslim view, a *Ḥadīth* could only be considered credible when its *isnād* (chain of narrators) formed an unbroken series of reliable narrators. They endeavoured not only to ascertain the names and circumstances of the narrators (*rijāl*) in order to investigate when and where they lived, and which of them had been personally acquainted with the other but also to test their reliability, truthfulness and accuracy in transmitting the texts. The criticism of the narrators was called *al-Jarḥ wa't Ta'dīl*. The 'knowledge of the men' (*ma'rifa't ar-Rijāl*) was considered indispensable for every student of *Ḥadīth*. All the commentaries on the Collections of *Ḥadīth* therefore contain more or less copious details concerning the narrators. Special works were also written on this subject.

The following exhibits were shown and commented upon :—

1. M. HIDAYAT HOSAIN.—*Kharīdat al-Qaṣr*.

This book is an anthology of contemporary poets by 'Imād ad-Dīn al-Kātib al-Isfahānī (died A.D. 1201). It is a continuation of al-Khazraji's (died A.D. 1172) work *Zīnat ad-Dahr*. The latter is a continuation of 'Alī al-Bākhrazī's (died A.D. 1075) *Dumyat al-Qaṣr* which is also a continuation of Ath-Tha'labī's (died A.D. 1037) *Yatīmat ad-Dahr*. Ath-Tha'labī wrote this work to serve as a supplement to Hārūn al-Munajjim's (died A.D. 900) work *al-Kitāb al-Bārī*.

The *Kharīdat al-Qaṣr* is the chief work of 'Imād ad-Dīn and occupies a very important place in Arabic literature. It includes, with the exception of a few obscure poets, the names of all the poets of 'Irāq, Syria, Mesopotamia, Egypt, North Africa, Spain, and Sicily. These poets flourished between the years A.D. 1106–1176. According to Ibn Khallikān, this work is in ten volumes, and has never been printed. Though copies of this MS. are found in European Libraries, they are only in fragments.

The Society's copy of this MS. is most important as it is the original draft of the author. It begins with the mention of the names of the poets who lived during the author's life-time at Aleppo. The first name mentioned is that of Ḥammād al-Kharrāt. 'Imād writes about him that he was the foremost poet in Syria. Then he enumerates the names of the poets who lived in Hijāz, Moṣil and Yaman.

Dr. Hosain said that this work was composed by 'Imād ad-Dīn Muḥammad bin Muḥammad al-Kātib al-Isfahānī. He was born at Isfahān on Monday, the 2nd of Jumāda II, or according to some in Sha'bān, A.H. 519 (July, A.D. 1125). After having acquired whatever instructions

his native place could afford, he went to Baghdād while he was very young and got himself admitted into the Nizāmiya College.¹

He first studied jurisprudence under Abū Mansūr Sa'īd bin Muḥammad bin ar-Razzāz, a professor of the Nizāmiya College (died A.H. 539, A.D. 1145) and then took up the subject of Polemic Divinity and various branches of Literature (*al-Khilāf wa funūn al-Adab*) in which he acquired proficiency. He studied Ḥadīth in the same city under 'Alī bin Hibatallāh bin 'Abd as-Salām, Muḥammad bin 'Abd al-Malik bin Jirūn and other masters.

After having become proficient in various branches of learning, he gained the patronage of 'Awn ad-Dīn Yahya bin Hubaira, the Minister of al-Muqtafi (A.H. 530-555, A.D. 1136-1160) in Baghdād and was appointed Government Inspector in the Province of Basra. Subsequently he was transferred in the same capacity to Wāsit. On the death of 'Awn ad-Dīn in A.H. 560, A.D. 1165, Imād ad-Dīn was dismissed from his post and had to pass a difficult time. In the month of Sha'bān, A.H. 562 (May-June, A.D. 1166) Imād ad-Dīn went to Damascus and found a friendly welcome there, and through the recommendation of Kamāl ad-Dīn Abū'l Fadl Muḥammad bin ash-Shaharzurī was appointed to conduct the State correspondence. He fulfilled the duties of this high post with great success and became a trusted servant of the State. He was sent by Sultān Nūr ad-Dīn on a diplomatic mission to Caliph al-Mustanjid (A.H. 555-566, A.D. 1160-1170) at Baghdād. On his return he was appointed in A.H. 567, A.D. 1171, to a professorship of a College which was called after his name *al-Imādiyya*. In A.H. 568, A.D. 1172, Sultān Nūr ad-Dīn conferred on him the Presidentship of the Council of State (*Ishrāf ad-Diwan*). On Nūr ad-Dīn's death in A.H. 569, A.D. 1173, his enemies succeeded in harming him and he was compelled to leave for Baghdād. On arriving at Mosul he fell ill, but on his recovery he left the place on the 4th of Jumāda I, A.H. 570 (December, A.D. 1174) and went to Sultān Ṣalāh ad-Dīn who was preparing to conquer Syria. He paid his respect to the Prince at Ḥams (Emessa) and recited to him a poem in congratulation of his capture of this city. He acquired great influence with the Sultān and accompanied him wherever he went. On the death of Sultān Ṣalāh ad-Dīn in A.H. 589, A.D. 1193, he retired into private life and devoted himself to literary work. He died at Damascus on Monday, the 1st of Ramaḍān, A.H. 597 (June, A.D. 1201).

The *Kharīdat al-Qasr wa Jarīdat al-'Asr* (or Virgin Pearl of the Palace and the palm-branch of the age) is an anthology of contemporary poets. He wrote this book as a continuation of Abū'l Ma'ālī Sa'īd bin 'Alī al-Ansārī al-Khazraji's (d. A.H. 568, A.D. 1172) work *Zīnat al-Dahr wa 'Ussat ahl al-'Asr wa Dhikr Altāf Shi'r al-'Asr* (ornament of time, refuge of contemporaries, and citations of the beauties contained in modern poetry) which work was meant as a continuation to Abū'l Hasan 'Alī bin al-Hasan al-Bākhrazī's (d. A.H. 467, A.D. 1075)² *Dumyat al-Qasr wa 'Ussat ahl al-'Asr* (statue of the palace and the essence extracted from our contemporaries) which was written as a continuation to ath-Tha'labī's (d.

¹ The foundation stone of this greatest seat of learning in Islām was laid in Dhū'l Ḥijja, A.H. 457 (November, A.D. 1065) and it was publicly opened on Saturday, the 10th Dhū'l Qa'ada, A.H. 459 (September, A.D. 1067) in Baghdād. It was named the Nizāmiya College after the name of the great minister of Alp Arsalān and Malik Shāh, Nizām al-Mulk. Another college under the same name was also established by him at Nisāpūr. See Ibn Khallikān, Egyptian edition, vol. I, p. 304, and also Wüstenfeld, *Die Akademien der Araber und ihre Lehrer*.

² A supplement to this work was written by Abū'l Hasan 'Alī bin Zaid al-Baihaqi under the title of *Wishāh ad-Dumya* (girdle of the statue). Imād ad-Dīn in his *Kharīda* names him Sharaf ad-Dīn Abū'l Hasan 'Alī bin al-Hasan al-Baihaqi. See De Slane, vol. II, p. 323.

A.H. 429, A.D. 1037) *Yatīmat*¹ *ad-Dahr fī Maḥāsīn ahl al-‘Asr* (the pearl of the age, treating of the merits of contemporaries). Ath-Tha‘labī wrote this work to serve as a continuation to Hārūn bin ‘Alī al-Munajjim’s (d. A.H. 288, A.D. 900) work *al-Kitāb al-Bārī fī Akhbār ash-Shu‘arā’ al-Muwalladīn* (the elegant book about the accounts of post-classical poets).² This anthology, the *Kharīdat al-Qaṣr*, is the chief work of ‘Imād ad-Dīn and constitutes a very important work of Arabic literature. It includes, with the exception of a few obscure authors, all the poets of ‘Irāq, Syria, Mesopotamia, Egypt, North Africa, Spain, and Sicily. According to Ibn Khallikān this work is in ten volumes. It has never been printed. Though copies of it are found in many Libraries in Europe (Berlin 7409, Vienna 366-8, Gotha 2128, Paris 3313, British Museum 573) yet everywhere only a portion of it exists. Our copy is also a portion of that voluminous work—begins with the poets of Ḥalab (Aleppo). The first name mentioned is of Ḥammād al-Kharrāṭ. ‘Imād writes about him that he is unequal in poetry throughout Syria. Then he gives the poets of Hijāz, Moṣil, and Yaman. Our copy is the most important one as it is the original draft of the author. The book contains accounts of the poets who flourished between the year 500 (A.D. 1106) and 572 (A.D. 1176). Subsequently ‘Imād ad-Dīn wrote a supplement to *al-Kharīda* and named it *Sail ala’dh Dhail* (torrent after the train, or after the rain) see Ibn Khallikān, vol. II, p. 75.

His other works are :—

(1) *al-Fatḥ al-Qussī fī’l Fath al-Qudsī* (the Qussian³ elucidation on the conquest of Jerusalem). It gives a story of the conquest of Syria and Palestine by Ṣalāḥ ad-Dīn and of how Jerusalem was taken from the *Crusaders*. It has been edited in two volumes by Landberg, Leiden, 1888.

(2) *Nuṣrat al-Fatra wa ‘Uṣrat ol-Fītra*, (succour against languor and asylum for the human race) is a history of the Saljūqs in al-‘Irāq on the basis of the official records. A synopsis by al-Bundārī (d. A.H. 623, A.D. 1226) under the title *Zubdat an-Nuṣra wa Nukḥbat al-‘Uṣra* (cream of the *Nuṣra* and extract of the ‘*Uṣra*) has been published by Houtsma, Leiden, 1889.

(3) *Kitāb al-Barq ash-Shāmī* (the Syrian lightning) is in seven volumes and is devoted to historical subjects. Only the 5th volume dealing with the accounts of A.H. 578-80, A.D. 1182-84, is in Bodl. See vol. I, No. 761. He commences with the history of his own life and gives an account of his journey from ‘Irāq to Syria, and of what happened to him when he was in the service of Sulṭān Nūr ad-Dīn Mahmūd. He then relates how he obtained admission to the service of the Sulṭān Ṣalāḥ

¹ *Yatīma* signifies both *orphan* and *precious pearl*. Abū’l Fuṭūḥ Naṣrallāh bin Qalakis (d. A.H. 567, A.D. 1171, Ibn Kh., II, p. 156) has written a verse in praise of this book which may be translated as follows :—

The verses of the poems in the *Yatīma* are virgin daughters of the spirits who lived in olden days. They are now dead, but their daughters have survived and the work bears the name of *Yatīma*.

² *Muwallad* means properly one born of non-Arab parents but brought up among Arabs. The post-classical poets were called *Muwalladūn* in contrast to the *Islamiyyūn*, their language was no longer considered a model of grammar, lexicography, and prosody. The dividing line between the two lies about the end of the first century, Hijra.

³ Quss bin Sa’ida bin ‘Amr al-‘Ibādī (the nestorian Christian) was bishop of Najrān in Yaman and celebrated for his eloquence. The Prophet met him at ‘Ukāz (the celebrated fair formerly held near Mecca which lasted three weeks) and heard him preach, sometime previously to the promulgation of Islām. al-Mas’ūdī speaks of him in *Murūj adh-Dhahab*. See Sprenger’s translation, vol. I, p. 137.

ad-Dīn, and notices some of the conquests achieved in Syria. He has entitled this work *al-Barq ash-Shāmī* (the Syrian Lightning), because the hours he spent in those days resembled the lightning¹ flash in the pleasure which they gave and the rapidity with which they passed away.

(4) *as-Sirr al-Maktūm* (the hidden secret) treats of judicial astrology. See Ibn Khallikān, vol. II, p. 75.

(5) He has also left a collection of epistles and another of poems in four volumes. See Ibn Khallikān, vol. II, p. 75.

It is related that 'Imād met al-Qāḍī Fāḍil one day on horseback and said to the Qāḍī 'Proceed, and may the horse never stumble with thee' (*Sir fala kaba b/ka al-Faras*), and the Qāḍī replied, 'May the glory of 'Imād endure' (*Dām 'ala al-'Imād*). These phrases may be read either backwards or forwards without any change.² Imād-ad-Dīn's prose writings are characterized by an exceedingly ornate and bombastic style.

Prof. S. K. Rahman enquired when this MS. was obtained for the Society.

Dr. Hosain replied that it was acquired some time ago from an Arab book-seller.

2. SUNITI KUMAR CHATTERJI.—*An old Hindu painting on cloth from the Island of Bali.*

This painting was bought by me at Kloengkoeng in South Bali, in 1927, when I visited the island with Rabindranath Tagore. It is on coarse cloth, probably of European origin, and measures 4 feet 11 inches by 4 feet 4 inches, and is a characteristic specimen of Indonesian art of Hindu inspiration. The entire piece is divided into 42 compartments, 7 each in 6 rows, each compartment measuring 9 inches by 7 inches, and in each a scene is depicted. In addition there is a row of smaller compartments at the bottom, and also 7 in number, depicting mythological animals. There are ornamental scrolls at the top and on the two sides, without any such scroll at the bottom. There are legends in Balinese characters in each compartment, but I have not been able to get these read. The scroll is said to be astrological in intent.

In the topmost row we have figures of divinities with attendants. The yellow background round each figure, like a flame of fire, is the *prabhā* or halo round the god or goddess.

The 35 compartments, apart from those in the top row and the smaller set at the bottom, depict among other things scenes which are supposed to show the result of astrological influences on life. We get little *genre* sketches of Balinese life in these. Among other subjects, we have a combat between warriors, between a god and a dragon (*nāga*); a ritual suicide; ghost scenes; superstitions connected with twin babies; agricultural and pastoral life as well as fishing; and intimate erotic scenes. They form good illustrations of old Balinese life and belief drawn

¹ We find in the poems of the ancient Arabs, the lover frequently describes his joy in watching the lightning, which presages a fertilizing shower to the plains where his mistress dwells.

² The vowels written in italics are not represented in Arabic writing

and painted by the Balinese themselves in their traditional manner, and as such they have a great value as documents of culture. These scenes would be well worth reproducing if explanations with translation of the Balinese legends were forthcoming.

To show the contrast with the rather decadent modern scroll paintings (in vogue for the tourist trade), done in a similar style, I place beside this genuine old one (I should say about 50 years old ?) a fragment of a recent work depicting *Apsarases*, or nymphs, bathing, also bought at Kloengkoeng.

Mr. Percy Brown said that he only felt competent to judge this painting in its artistic aspect, and he thought it showed evidences of considerable dexterity in handling particularly in the sureness of the outline and the freedom of the drawing generally, all of which undecided the such workmanship with the result of a long apprenticeship in the art of painting on cloth. He would be interested in hearing Dr. Chatterji's authority for the age of the exhibit.

In reply Dr. Chatterji said that the age of the painting (about 50 years) as suggested by him was just a surmise. Paintings in this style are not so very old in Bali, and buildings with wall paintings in the same style have been erected in Bali a couple of generations ago. The well-known *Kerta-gus* pavilion at Kloengkoeng, which is used as a law-court and is one of the show places in that little town, has wall-paintings recalling those in the scroll exhibited, and, as far as he remembered, this pavilion was built in the nineties of the last century. He saw similar paintings on the walls of houses within the *enceinte* of the old residence of the stedehouder at Karang-Asem in East Bali. The same style although a little decadent now is still in vogue as the native school of painting in the island. Drawings in the same manner scratched with an iron stylus on palm leaves, forming illustrations to *lontar* or palm leaf books, are known : these recall the Orissan drawings on palm leaf, similarly scratched with an iron stylus. The Royal Batavian Institute of Arts and Sciences has published in facsimile a set of palm leaves with scratched illustrations forming a book called 'Darmo Lelangen' ; and Balinese scribes are found even at the present day who can make these pictures on palm leaf. The *Kirya Liefrinck-Van der Tuuk* at Singaradja, Bali, which is a sort of Asiatic Society and Literary Academy for Bali, is making a collection of palm-leaf MSS. in Balinese, Javanese and Kawi, and in Sanskrit, and occasionally when old MSS. are not obtainable for its collection, the *Kirya* is getting copies made, text and illustrations and all. So that the style still continuing to be a living one, the present scroll exhibited which is executed in a fine manner could very well be assumed—and its look also supports this view—to be about 50 years old. This view is put forward as a suggestion only.

Mr. Van Manen said :—

'The gods are particularly propitious to-day. After hanging for exhibition Prof. Chatterji's Balinese scroll, I received the European mail for the week this very afternoon, and one of the first things that I laid my hands upon was the latest number of the *Baessler-Archiv* (Vol. XVIII, Heft 4) to which I feel happy to draw the attention of Prof. Chatterji and of the meeting. This number of the *Archiv* has an article by Dr. Alfred Maass on the Balinese Calendar, including a similar Balinese scroll which Dr. Maass obtained as a present from a Dutch friend (who procured it from Klungkung in Bali—the same place from where Prof. Chatterji's scroll comes) a few years ago. Dr. Maass has been working at the Balinese Calendar and allied topics for a good number of years, and this coloured scroll, which is almost a counterpart of Prof. Chatterji's, and of which a

coloured reproduction has been published by Dr. Maass in the *Baessler-Archiv*, has been successfully interpreted by him. The Balinese Calendar shows a combination of the Hindu system of a seven-day week and the native Malayo-Polynesian system of a five-day week. Hence we have, apart from the top row depicting the gods and the bottom row depicting the mythological animals, $7 \times 5 = 35$ compartments. These 35, with the 7 compartments for the gods at the top, and the 7 for the mythological animals at the bottom which symbolize the character of men and women born under the influence of the stars, form 49 compartments in all. Dr. Maass has given the reading of the Balinese inscriptions, with translations and a detailed discussion, and the whole thing has thus been made accessible to science. Prof. Chatterji's scroll is equally genuine with Dr. Maass's, but it is slightly different in some of the scenes depicted: particularly in the erotic scenes, which are substituted by other ones in Dr. Maass's scroll. And now that Dr. Maass's illuminating article is available, we may expect Prof. Chatterji to study this highly interesting and valuable document of Indonesian culture which he has exhibited to-day, and in course of time to publish his observations.'

After the showing of the exhibits the following communication was made :—

1. JOHAN VAN MANEN.—*The recent descriptions of Minya Gongkar.*

The existence of a high peak about 30 miles south of Ta-chien-lu in Sze-chuan (Western China) was reported in 1879 by Count Bela Szechenyi. The mountain was almost forgotten till in 1930 Joseph Rock published some magnificent coloured photographs of it in the American National Geographic Magazine. The Roosevelts, in 1929 however, had again alluded to the mountain estimating its height at a (doubtful) 30 000 feet. Dr. Arnold Heim explored the mountain in detail (not climbing it) in 1930-31 and gave excellent descriptions, maps and pictures, in his work *Minya Gongkar* (1933). He estimated the height at 7,700 metres (25,262 feet). J. H. Edgar contributed valuable data on the subject between 1926 and 1930. In 1932 three Americans R. L. Burdsall, Arthur B. Emmons, and Terris Moore actually climbed the mountain, reaching its summit. They took careful measurements and calculated the height to be 7,590 metres, or 24,900 feet. An attempt is made to summarize the problems involved.

Mr. Percy Brown remarked that it was clear this mountain was in the vicinity of the country occupied by that class of Tibetans known as the Kam, or Kamba, with whom he had some acquaintances. These were a particularly picturesque people, mediæval in their appearance and costume, roughed and rugged in their manner as the mountain near which they lived. The Kams were the producers of much of the artistic ironwork of Tibet, such as arms and perforated bowls, the iron in which they were worked being probably obtained from the mountainous tract now described.



JUNE.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 1st, at 5-30 p.m.

PRESENT.

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt. M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President, in the Chair.

Members :

Bogdanov, Mr. L.
Bose, Mr. M. M.
Brown, Mr. Percy
Chakravarti, Prof. C.
Chatterjee, Mr. P. P.
Chatterji, Prof. B. R.

Driver, Mr. D. C.
Ghose, Mr. T. P.
Guha, Dr. B. S.
Haq, Mr. M. M.
Hobbs, Mr. H.
Hossain, Dr. M. H.
Mullick, Mr. M. L.

Visitors :

Biswas, Mr. K. P.

Bose, Mr. A.
Sen Gupta, Prof. P. C.

Before opening the proceedings, the Chairman announced that His Majesty, the King Emperor, had been graciously pleased to grant permission to the Society to use the title 'Royal' before its name, and that the Society therefore would henceforth be known as the Royal Asiatic Society of Bengal'.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(15) *Sen, Jitendra Mohan*, M.Ed., B.Sc., F.R.G.S., F.N.I., Assistant Director of Public Instruction, Bengal ; 63, Lansdowne Road, Calcutta.

Proposer: Sir Upendra Nath Brahmachari.
Seconder: J. N. Mukherjee.

(16) *Ahmad, Alfazuddin*, Khan Bahadur, M.A., Retired Assistant Director of Public Instruction, Bengal ; Dhalhora, P.O. Tamluk, Midnapur.

Proposer: Sir Upendra Nath Brahmachari.
Seconder: M. Mahfuz-ul Haq.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(3) Sir R. N. Mookerjee (A life Member, 1898, Honorary Fellow, 1929).

Sir Upendra Nath Brahmachari read an obituary notice of Sir R. N. Mookerjee (see page 183).

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Papers were presented and exhibits were shown and commented upon as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The following paper was read :—

1. P. C. SENGUPTA.—*The Date of the Bhārata Battle.*

The aim of this paper is to ascertain the date of the Bhārata Battle from the astronomical references in the *Mahābhārata* itself. The author first gives an outline history of some of the notable researches for finding this date in the past, and shows that their results have been all inconclusive. He then states the three traditions for the date of the event, viz. 3102 B.C., 2449 B.C. and 1421 B.C. ascribable respectively to Āryabhata I (499 A.D.), Vṛddha Garga (much earlier than Āryabhata I) and the astronomical writer of the Purāṇas. The author mentions the names of some notable supporters of these three traditions. He then points out how important it is to find accurately the date of the Bhārata Battle for fixing the chronology of the *Vedas*, *Brāhmaṇas* and the *Upaniṣads*.

The author next cites a system of consistent astronomical references from the *Mahābhārata* from which he attempts an approximate solution of the problem as one on conjunction of the moon with the sun and some fixed stars. He finds that the approximate position of the summer solstitial colure of the year of the Bhārata Battle passed through the star *Regulus*, whence the year comes out to be 2350 B.C.—a result which fairly agrees with the tradition ascribed to Vṛddha Garga that Yudhiṣṭhira became King in 2449 B.C. He then examines the year 2449 B.C. astronomically by a consideration of the mean motions of the sun and the moon and proves that the lunisolar phenomena of the *Mahābhārata* references did actually happen in 2449 B.C. He next calculates the apparent longitudes of the sun, the moon, and some stars for some days of the year 2449 B.C. and shows conclusively that the fight began on the 14th October and lasted till the 31st of the same month and that Bhīṣma expired on the 20th December, one day after the sun had reached the winter solstice. So far as our knowledge goes these *Mahābhārata* references have not been used in any

other previous researches. The author has supplemented his paper by citing some other *Mahābhārata* references showing that there was a time in the history of Hindu India, when the summer solstitial colure passed through the star *Regulus* and the vernal equinoctial year through the star group *Pleiades*, for which the mean date is 2350 B.C.

In thanking the author for his most interesting paper, Mr. *Percy Brown* remarked that any information that would throw a light on such an important historical event was doubly welcome. He thought that Mr. Sengupta's approach to the subject opened up a new view, and he congratulated him on the originality of his research.

Mr. *Hobbs* supported Mr. *Percy Brown* and considered that Mr. Sengupta's method of approaching the subject would be found useful in fixing dates for historical events in many parts of the world. Further, he complimented Mr. Sengupta on the facility and clarity of his writing on the black board, as he had never seen anything approaching that in all his life.

The following exhibits were shown and commented upon :—

1. CHINTAHARAN CHAKRAVARTI.—*Newly acquired Manuscripts on the Cult of Kubjikā.*

Kubjikā, the name of an aspect of the Divine Mother, worshipped in Nepal, is not generally known to the world of scholars. The literature dealing with the details of her worship deposited in the Durbar Library of Nepal was brought to the notice of scholars by the late Mahamahopādhyāya Haraprasad Shastri in 1905. MSS. of this literature are not reported from anywhere else. Of late the Royal Asiatic Society of Bengal has been fortunate in acquiring a number of MSS. which have tended to make its collection of the Kubjikā literature a fair and a representative one. A brief account was given of these MSS., a study of which is expected to throw light on a little-known but interesting cult. At least one of these MSS., viz. the *Mahākramārcana* of Ajitānandanātha, disciple of Anantānandanātha, appears to be unique.

Mr. *Chintaharan Chakravarti* said :—

During the last few months about a hundred MSS. of Sanskrit works which include a number of highly important and interesting MSS. have been purchased for the Society. Of these the MS. of a portion of the *Mahābhārata* in old Bengali script was exhibited by Mr. Van Manen in a previous monthly meeting. I propose to place before this meeting several valuable and unique MSS. of works on the little-known cult of Kubjikā.

The Society had already in its collections the following MSS. of works on this cult :—

1. Two MSS. of the *Kubjikāmata*, of which one in a dilapidated condition is in later Gupta (JASB. Pr. 1900, p. 76-7) and the other is in Newari script. The former of these MSS. which appears to be incomplete has 42 chapters while the latter preserves a version complete in 25 chapters.

2. A MS. of the *Srīmatasāraṭippaṇa* in the Nāgarī script which may be of the nature of a short commentary on the *Matasāra* described in *A Catalogue of Palm-leaf and selected Paper MSS. belonging to the Durbar Library of Nepal* (Vol. I, p. 222).

3. A MS. of the *Manthānabhairava* in Bengali characters which does not seem to agree with the MSS. of the work in the Durbar Library of Nepal (*op. cit.*, pp. 22, 224).

The MSS. lately acquired on the subject are :—

1. A MS. of the *Kubjikāmata* in Nāgari script apparently written by a Newari hand, with a portion in the Gujarāṭi script. The version of the work preserved in the MS. is complete in 50 chapters. It refers to an original and earlier text of the cult (सुखपन्थे त्वया देव गूढमार्गेण चोद्धृतः—Fol. 113A, एतत् संचेषतः ज्ञातं विस्तरश्च पुरागमे—Fol. 137B), as also to works belonging to different branches of Sanskrit literature from which quotations are sometimes found to have been made (एते व्याख्याता समापूर्वं लोकमार्गेण ज्योतिषे—Fol. 114B, *Ladhvītantra*—Fol. 147B, *Aghorīḍāmaratantra*—Fol. 149A).

2. Several MSS. of ritualistic works. Of these there are MSS. in Newari characters of two works of the nature of digests of original and authentic works on the cult. Of the two, one, the *Nityāhnikatilaka* of Mukṭaka, (read as Muñjaka by H. P. Shastri in his description of the MS. of the work in the Durbar Library (*op. cit.*, p. 112), which appears to be one of the earliest of Tantra digests, refers to Śrīmuni, Ratnadēva Kāśīrāja, and *Sambhūnirṇaya*. The other the *Mahākramārcana* of Ajitānandanātha, disciple of Anantānandadeva, no manuscript of which is known to exist elsewhere, has a fragmentary MS. containing chapters III–VIII and portions of chapters 1, 2, 9 and 14. These works describe the details of the worship of Kubjikā beginning with the morning rites to be performed by the worshipper. There are also MSS. of two priests' manuals without any names. They are written in the Newari script on long sheets of paper with a large number of folds.

The rituals of the worship of the deity as detailed in these MSS., though not always clear are found to have a number of peculiar features scarcely noticed in the usual Tantra rites. The cult which is called *Śrīmata*, *Kulākula*, *Kubjikāmata* or *Kubjimata* belongs to the Western School and is stated to be the principal resort of those that follow the Kaula form of worship (देवलोके त्वया ज्ञातं कुञ्जिकाद्यं महामतम् । कुलमार्ग-प्रपन्नानां सुखभूतं कुलागमम् ॥—Fol. 9A of the newly acquired *Kubjikāmata*).

It recognizes five *cakras* and four *āmnāyas*. The form of worship followed in it is known as *Kramapūjā*. The ritualistic peculiarities consist among other things of the worship to be offered to several groups of sages and deities known as *ratna-pañcaka*, *vimalapañcaka* and *siddhacatuṣka*.

It should be pointed out in this connection that the *Kubjikātantra*, MSS. of which are in the Society's Library as elsewhere, has nothing to do with this cult. An account of the deity and her worship is, however, found in the *Agnipurāṇa* (Chapter 143ff). But no reference to the deity is met with in any of the well-known Sanskrit lexicons—Indian or European. As a matter of fact, however, it appears from the various scripts of the MSS. noticed above, that the literature—if not the cult itself—was not confined within the four walls of Nepal.

2. M. HIDAYAT HOSAIN.—A Persian stencilled wall-hanging Picture said to represent 'Umar Khayyām.

A beautiful picture done on cloth, size 17"×17", with a quatrain from the writings of 'Umar Khayyām (died A.H. 526, A.D. 1131).

Dr. M. Hidayat Hosain said :—

In the picture the poet is seen drinking wine on bended knees, and receiving it from his mistress who is standing. She is pouring wine from the goblet into the poet's palms. The dresses are painted in blue and red.

In the background is a natural scenery consisting of a tree and a bush with flowers on it. The clouds and the lawn in the picture have a natural setting. The whole picture is enclosed in a border of floral designs, marked with deep double border lines. The picture bears a quatrain on the right-hand top of the cloth as follows :—

(i) خیام¹ زمانه از کسی دارد ننگ کو در غم ایام نشیند دل تنگ

(ii) می خور تو در آگینه² با ناله چنگ زان پیش که آگینه آید بر سنگ

Translation : 'O *Khayyām* : Time is ashamed of a person,
Who sits dejected on account of the vicissitudes of Time,
Drink wine from the glass to the accompaniment of the
music of the harp,
Before the glass is placed on the tombstone.'

Western scholars have translated the last line as, 'Ere the jug is broken on some stone'. But in my opinion the poet wants to convey a deeper meaning than this. From his usage of the word آگینه in two places of the last couplet, the word apparently has two meanings. In the first place, it means a 'wine glass' or 'a jug', and in the second place, 'a glass', evidently meaning the glass which is usually placed on the marble tablet of the tomb. From سنگ مرار he means سنگ مرار i.e. the tombstone, as it is customary to protect the epitaphs on the tombstones with glass-plates. Moreover the breaking of a wine glass is a common occurrence without any serious consequences. Or, the poet had another idea in his mind. He knew what is meant by death, and the destruction it caused to life in the universe, and so, he has compared the آگینه (glass) with the life of man both being frail and سنگ (stone) to death, or in other words, as the destruction of the glass is caused through its impact with stone, so life becomes extinct when it meets death.

آگینه حبات آید بر سنگ اجل

In my opinion the poet really intends to convey the idea that it is desirable to enjoy life to the fullest extent before one's death. He has also expressed the same views in other places, viz. :

آمد سعری ندا زمیخانه ما * گای رند خراباتی دوانه ما

برخیز که یر کنیم پیمانه زمی * زان بش که یر کنند بپمانه ما

At dawn a cry through all the tavern shrilled,
'Arise my brethren of the revellers' guild,
That I may fill our measures full of wine,
Or e'er the measure of our days be filled'.

(WHITFIELD.)

¹ Sir F. Denison Ross has (Bulletin of the School of Oriental Studies, Vol. IV, 1926-28, p. 437) given خیام زمانه instead of خیام ایام.

² *Ibid.* آگینه و ناله چنگ.

برخیز و بیا بیا برای دلِ ما * حل کن بجمالِ خوش یک مشکلِ ما
 یک کوزه می بیاَر تا نوش کنیم * زان پیش که کوزه‌ها کنند از گلِ ما

Arise! and come, and of thy courtesy
 Resolve my weary heart's perplexity,
 And fill my goblet, so that I may drink,
 Or e'er they make their goblets out of me.

(WHINFIELD.)

Also a small inscription in the narrow space between the heads of two figures, reading 'Hakīm 'Umar Khayyām' in Persian.

This picture is of modern workmanship, but is artistic and attractive.

Mr. Percy Brown called attention to the process by which the work was produced, which he said was not stencilled, as described by the exhibitor, but the result was most probably obtained by means of printing with wooden blocks, and parts afterwards filled in with colours by hand. He did not agree with Dr. Hosain's statement that it was a 'beautiful picture', and thought it rather an ordinary modern production of no great æsthetic significance.

Dr. Hosain admitted that it was not a very high class picture in the modern sense of the term, but in his opinion the Persian dress, depicted in the natural colour, gave at least an idea of some æsthetic taste of the producer.

Mr. P. P. Chatterjee enquired whether the poet Omar Khayyām, in his Rubā'iyāts, wanted to give an allegorical meaning to wine glass and that whether he taught the doctrine of predestination referring to the lines: . . . where Destiny, with men for pieces play . . . as translated by Fitz-Gerald.

Dr. Hosain replied that in his opinion the poet had not the idea of predestination in his mind when he wrote this quatrain, but it seemed to him that he gave expression to the view of Hedonism or Utilitarianism in these lines which the European philosophers like Bentham, Mill, Sidgwick, etc., developed into a practical movement and an ethical theory by which they advocated that one should enjoy the greatest happiness of the greatest number. He also thought that the European philosophers had only enlarged or developed the doctrine of Utilitarianism of which 'Umar Khayyām had laid the foundation stone in the 12th century. He also believed that 'wine glass' and similar expressions had always been used allegorically by the Persian poets.

Mr. Hobbs said that in his opinion the picture conveys the meaning found in the last chapter of the Book of Proverbs, verses 4, 5, 6 and 7. These verses, even during the bitterest controversy of the past 40 years, do not seem to have been quoted either by those for, or against, Prohibition. They are a sad corroboration of the fact that the Bible is not read.

'It is not for kings, O Lemuel, it is not for kings to drink wine: nor for princes strong drink:

'Lest they drink, and forget the law, and pervert the judgment of any of the afflicted.

'Give strong drink unto him that is ready to perish and wine unto those that be of heavy hearts,

'Let him drink, and forget his poverty, and remember his misery no more.'

3. PERCY BROWN.—*A metal Figurine of a Dancer.*

The figurine is 9½ inches in height and presumed to be of brass. Obtained from a Nepali dealer, but origin unknown. It

appears to represent a form of Śiva, but is very unusual in its treatment, although he holds the drum (*damaru*) in the shape of an hour-glass, and there is a serpent coiled round his neck, with another above his head. The statuette, although rather crudely modelled, is very spirited on its action, and the lively movement of the dance is vigorously represented by the position of the legs and arms, and the flying drapery.

Mr. Percy Brown explained that from subsequent investigations he had found that the figure was a representation of *Pauhuri*, a Nepalese or Tibetan interpretation of *Natarāja*. It had been made in Nepal, most probably by a small community of metal-workers who carry on that trade at Daulakha (Dhankuta?), a town some considerable distance to the east of Khatmandu, in the direction of Darjeeling.



JULY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRANATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President, in the Chair.

Members :

Agharkar, Dr. S. P.
Barwell, Lt.-Col. N.
Bhose, Mr. J. C.
Biswas, Mr. K. P.
Bose, Mr. M. M.
Brown, Mr. Percy
Chakravarti, Prof. Chintaharan
Chatterji, Dr. S. K.

Gangoly, Mr. O. C.
Hobbs, Mr. H.
Hosain, Dr. M. H.
Majumdar, Mr. N. G.
Mullick, Mr. M. L.
Ow-Wachendorf, Baron
Rao, Mr. U. S.
Vedantatirtha, Pandit V.

Visitors :

Barwell, Mrs.
Das Gupta, Mr. C. C.

Giskra, Baroness
Ray, Mr. B. B.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eleven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidate would be balloted for as an Ordinary Member :—

(15) *Bakht, Muhammad Sanuwar*, Maulavi, Assam School Service Anglo-Arabic Teacher, Government High School, Sibsagar, Assam.

Proposer: M. Hidayet Hosain.

Seconder: Suniti Kumar Chatterji.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(4) P. C. Nahar (An Ordinary Member, 1906).

Dr. S. K. Chatterji read an obituary notice of the late P. C. Nahar (see page 184).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(10) Nico Reneman (An Ordinary Member, 1928).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Exhibits were shown and commented upon and communications were made as detailed below.

The Chairman announced that His Majesty the King Emperor of India had been graciously pleased to grant permission to the Society to use the title 'Royal' before its name. The title of the Fellows of the Society, at present 'F.A.S.B.', would, as a consequential change, be 'F.R.A.S.B.'

The Chairman announced the result of the ballot for the election of the Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The Chairman bade farewell to Baron Ow-Wachendorf in the following words :—

The Baron joined this Society as soon as he came to Calcutta as the Consul-General for Germany. He took an active part in the affairs of the Society. At our Annual Meetings he used to exhibit specimens of archaeological and ethnological interest. Last year he made a presentation to the Society of the Official German Record of International Policies of the great European Powers from 1871 to 1914, in 40 volumes. The work is a very valuable addition to the Society's library and his generosity was deeply appreciated.

On behalf of the Society, I convey the best wishes to the Baron on the eve of his departure from Calcutta.

The following exhibits were shown and commented upon :—

1. SUNITI KUMAR CHATTERJI.—*A set of old Oriya Playing Cards.*

These round playing cards were in use in India,—at least in Eastern India,—before the coming of the European cards in the 18th century through the intermediacy of the Dutch. It is not known how old these round cards are, but judging from the fact that their symbolism is Hindu, they may be an

early Hindu or native Indian invention, like other sedentary games like chess and *pachisi*. The number varies from 96 to 120 and more.—the present set exhibited has 96. For the hearts, spades, clubs and diamonds of European cards there are lotuses, conchshells, clubs (the gada of Vishṇu), circles and squares : and different gods and goddesses also figure in these cards. Playing cards of this kind were current in West Bengal and in Orissa, and the making of them lingered on in Vishṇupur in West Bengal till recently. These cards have now become entirely obsolete, and very few people, if any, now know how to play them. The late MM. Haraprasad Sastri procured a set of Vishṇupur cards for the *Vaṅṡīyā Sāhitya Pariṣad* and wrote an account of the manner of playing them in the Journal of that Institution.

The present set comes from Orissa. The cards are made of cloth stiffened with a ground made of gum, and the designs—mostly figures of a god and a goddess (or a human *nāyaka* and *nāyikā*), frequently in an amorous situation—are painted in brilliant colours. Pictures of Jagannāth and other Hindu gods used to be done on cloth in the same style at Puri, which pilgrims would carry home with them : now crude lithographs on paper have put an end to this form of temple art. The cards exhibited are small in size, being only about $2\frac{1}{2}$ inches in diameter. Vishṇupur cards are much bigger. They form very good specimens of Oriya painting in the traditional style, and they have a distinctive place in Indian miniature painting. Erotic scenes like those depicted in the present set are lacking in the similar type of round Vishṇupur cards, three different sets of which I have seen. The symbols—lotuses, conchshells, clubs, etc.—are more in evidence there than human figures. The set exhibited may be fifty to eighty or even a hundred years old.

Mr. Percy Brown remarked that it was interesting to compare this Orissan type of playing cards with the 'Ganjifa Dasavatār', a somewhat similar kind found in Hindustan. The latter were rather thicker than the Oriya cards, as they were made of papier-maché, and stated to be played with chiefly by Indian ladies. The Ganjifa pack consists of ten suites of twelve cards each, two of each suite being Court cards. They are based on the ten incarnations of Vishṇu, each suit representing one of these manifestations. The two Court cards depict the form of the incarnation, while the pips on the remainder of the suit repeat some attribute symbolic of the particular incarnation depicted, for instance in the Vāmana or dwarf incarnation the pips are represented by a lota, the Matsya by a fish, and so forth.

These cards were manufactured in several places in the Punjab and the United Provinces, the town of Khajjuha in the Fatehpur district being noted. There is a complete pack of these cards mounted in correct order on glass in the Art Section of the Indian Museum.

Dr. S. P. Aghurkar remarked :—

The cards in question are similar to the cards known as 'Ganjiphā' in Mahārāshṭra, which are still being used, although they are gradually

being out of use. The complete set consists of 120 cards and distributed over the ten incarnations of Vishnu, each incarnation being represented by the King, the Vizir, and ten cards from the ace to No. 10. The King is the highest and the Vizir next in each suit. The relative importance of the other cards varies in the different suits, the ace being highest and the ten lowest in the incarnations of the Matsya (fish), Kūrma (tortoise), Varāha (boar), Narahari (man-lion), and Vāman (the dwarf); and in the incarnations of Parashurāma, Rāma, Krishna, Buddha and Kalāṅki (or Kalkin), the ten is the highest and ace the lowest.

The game is usually played by three persons, each playing separately. Very rarely a variation, in which four persons take part, is also played. When the play is to start, the cards are shuffled face downwards, the shuffling being called 'Galat' (mixing). The shuffled cards are arranged in a pile face downwards, and one of the players deals out the cards in fours after they are cut by the player on his left. After the cards are cut the person cutting turns up the card at the bottom and if it should be a king, the pile is recut. The first four cards of each player are exposed and if they include the king of the Rāma set during the day or the king of the Krishna set at night, it is taken out and placed on top of the cut half. The last four cards of each player are also exposed.

The cards are gathered by each player and arranged in the different suits in order of their value. The king of Rāma during the day and the king of Krishna during the night is called the 'Surkya' (the starter), and whoever had it among his cards, throws it along with one low card of any suit called his seat (*Āsan*). Both these cards are master cards, the other players throwing two cards of any colour on these.

He has next to play out together all the sequences of master cards that he may have, keeping the lowest of each as a cheque. This is called playing out 'Dukkal.' ('Dukkal'-twos, which is the shortest sequence possible). After this the player plays out a low card of the suit in which he holds the Vizir but not the King. The player who has the King must play it on this card; but he may win an additional trick under certain circumstances. This player in turn plays out his 'Dukkal' and plays a card of the suit in which he has the Vizir but not the King. An effort is made to pass the game to the 3rd player, as until this happens one can only play 'straight' i.e. one can only play a low card of the suit in which he has the next highest card, certain other types of play not being permitted. If, on the other hand, he has no Vizir (which is rare), but has only Kings and cards of minor value, he has to play out all his master cards. The remaining cards in his hand are shuffled, and the player to his right calls out a card from this, which is the suit in which the game is played. This is called 'Utari,' i.e. throwing down the master cards. The game is continued in this manner, each person who has the initiative playing out his master cards or going into another player's hand, so as to make some of his cards good. When all cards have been played out, the tricks each one has made are counted to find out whether one has more or less than 40, which denotes equality.

For the second deal the cards are shuffled again and dealt by the player to the right of the first dealer. Before the play commences, however, a player who has made more than the requisite number of cards in his first deal has the right to call out any cards from among those dealt to the loser, and return any cards from among his own. For this purpose the cards are kept face downwards and the winner calls out by number those he wants. They are turned upwards and mixed in the cards held by the winner and the winner returns an equal number of cards to the loser so that each player holds the same number of cards before play commences again.

The play in the second deal is similar to that in the first. At the end of the second deal it is usually found that one of the players has won very few tricks. In the third deal the cards are dealt with as before, and cards are also taken from the loser. The result is that this player holds

very low cards. The game is to prevent him from winning any trick which is called 'Kādi' (straw), signifying bankruptcy. He has, however, the chance of preventing this by winning the last trick, which is called 'Akheri' (the last). If he wins the last trick on a card played by the player on his left, all his debt is wiped out, if on a card played by the player on his right he is free of the debt due to that player only. If in the last trick the cards of all players are of the same colour, it is called 'Rangeri' (one colour).¹

It is customary to achieve this in 3 to 4 deals, if this does not happen the game is called a draw. It is not possible to explain all the finer points of the game in this brief note, but I must mention that there are at least half a dozen Mahārāshtrians in Calcutta who can play the game quite well. Even in Mahārāstra, however, the game is dying out and perhaps may become extinct in the next generation.

The cards are manufactured at Sawantwadi. They are made of paper which is coated by a lac dye uniformly on the back and with pictures and diagrams on the front. Whether the game was indigenous or it was borrowed from the Persians it is difficult to say. The use of the ten Avatāras for the ten suits is distinctively Hindu, as also several of the terms in use. On the other hand the term 'Ganjīphā' as well as some other terms such as 'Galat, Nāṭawāni, Tawānir' are non-Indian. It is quite possible that the game is originally Indian which was subsequently modified. The use of Persian and Arabic terms is probably due to the use of words from these languages having become common during the Muslim rule.

Prof. Chatterji expressed his grateful appreciation of Dr. Agharkar's remarks. He was glad to find that the use of the Daśāvatāra cards for games was a living tradition in at least one part of India—Mahārāshtra. He remembers how in his childhood his maternal grandmother and other elderly ladies used to play a game with Daśāvatāra cards, which were oblong and not round, and were made of cardboard, the designs being printed by lithograph in Calcutta. These Bengali Daśāvatāra cards are no longer in vogue, and are not available any more.

In Mahārāshtra, as Dr. Agharkar tells us, these cards are known as (Daśāvatāra) *Ganjīfa*. The word (*Ganjīfa*) is Persian. The common word in Northern India to mean cards is *Tās* or *Tāsh*. The word seems to be connected with *Tās*, *Tāsā* or *Tāsh*—a kind of heavily embroidered cloth, the decorative designs on the back of European cards of the old style probably giving rise to the name.

India is reputed to be the home of the chess, of the *Pachīsā* and a number of other sedentary games. It is well worth looking up from Sanskrit literature whether there is any reference to game of cards.

Mr. O. C. Gangoly remarked :—

These cards raise very interesting questions as to the origin of the game of cards. MM. Haraprasad Shastri contributed two articles in our *Journal* in 1895 (JASB, LXIV, 1895, Part I, 284-5) and JPASB, 1896, p. 2-3)—in which he had boldly suggested that the Malla Kings of Vishnupur were the originators of this game, and that these cards may go back to about the 8th century A.D. If his suggestion can be proved, then India could claim to be the originator of this game. This class of circular cards occur in all parts of India. About 20 years ago I purchased a set of somewhat similar cards which came from the district of Bellary. I have also collected two sets from Rajputana—one of which may be as old as the 16th century.

Prof. C. Chakravarti said :—

MM. H. P. Shastri gave a description of the game as played in Vishnupur with cards depicted with representations of the ten incarnations of

¹ When this happens the mutual debts of all players are cancelled and the game is a draw.

Viṣṇu in which the Buddha occupies the fifth and not the ninth position, as is more usually the case in the Daśāvatāra list. He also referred to the fact that the plain Buddha cards were marked by lotuses. These facts, as also a local tradition that the game was invented by the Malla Rājās, had led the MM. to suggest that the game was as old in India as 700-800 A.D. Before arriving at any conclusion, what is essential is the collection and study of the various types of these cards, with the varieties of games played with them like those described by MM. H. P. Shastri and Dr. S. P. Agharkar. This is expected to throw light on the antiquity of the things in India and their connection with those of a similar nature in Europe and elsewhere. If the game is an extension of the Indian chess (as has been suggested by Singer) it may also prove to be of Indian origin. In any case, a thorough study of these materials needs be zealously undertaken before they become totally obsolete with the lapse of time. A description of the game in Sanskrit is found in a very late work, e.g., the *Gaṅgiphālhelana* (Kāvya-mālā, Vol. XIII, pp. 81-4) of Giridhara, son of Śaṅkara, grandson of Śiva, the astronomer, and author of a work on chess, fragments of which are known in MSS.

Mr. H. Hobbs said :—

It seems to show the antiquity and wide use of playing cards in India, which are possibly even older than the loaded dice found in the ruins of Pompeii.

One can well believe that the old inhabitants had many among them who were like the modern American who complained that 'I know so little about cards that I cannot tell who is going to win unless I deal myself.'

2. N. G. MAJUMDAR.—*A terracotta Toy-cart in the Indian Museum.*

This is a unique specimen of a terracotta toy-cart which has been in the Museum for many years. Its findspot is unknown. The cart has six passengers represented in relief including two women, who are all in festive mood and enjoying themselves. The party is engaged in eating and music, as may be seen from a tray containing eatables, a *tabla* and a harp. A similar example of a toy-cart has recently been discovered at Kosam in Allahabad District, and it is very likely that this one also came from the same place. On artistic grounds it may be placed in the Sunga period (about 150 B.C.).

Mr. N. G. Majumdar remarked :—

This toy-cart was lying amongst the unaccounted-for objects stored in the godowns of the Archæological Section of the Indian Museum. There is no record to show when and from where it came.

It is made of clay and measures about 6½" in length, 5" in breadth, and 3" in height. There is a hole on one side showing the place where a wheel was fitted. The portion containing the hole on the opposite side for the other wheel has broken off and is lost. The projecting front portion of the cart is pierced with three holes evidently to fix a stick to which a string might be fastened for propelling the cart.

The two sides of the cart above the wheel bear decorations in relief which are disposed of in two parallel horizontal lines, the upper one consisting of an array of bells and the lower of flowers. A line of bells occurs also on each of the overhanging top edges of the cart. Within it six persons are seated, the figures being represented in relief. Two men with a woman in between are shown along each side of the cart.

Of the two groups one shows a man playing on a harp and a woman on a *tabla*-like instrument, and a man is probably offering her something out of a tray of eatables. The other group shows a man eating from the same tray, also a woman and a man in an amorous attitude. The decoration consisting of bells and flowers as well as the treatment of the figures suggests that the object belongs to the Sunga period, 2nd-1st centuries B.C. An exactly similar clay cart has been recently discovered at Kosam (ancient Kauśāmbi) in Allahabad District. It is now kept in the Allahabad Museum. A notice of this clay cart has been published by Rai Bahadur Daya Ram Sahni in *Indian Art and Letters*, Vol. VIII, No. 2, p. 122, fig. 10. The present example seems to be much better preserved than the Allahabad Museum specimen. Mr. Sahni assigns it to *circa* 3rd century A.D. which date appears to be too late. The combined bell and flower motifs occur on the Bharhut railing and on certain terracottas of the Sunga period discovered at Bhita. Mention may be made of a terracotta fragment No. N.S. 1189 in the Indian Museum collection, which also bears this pattern.

In this connection I may draw your attention to another clay cart, but of a different type, from Kosam (Indian Museum No. 7400). It shows two bulls in relief represented as drawing the cart. The chief decorative elements are again the same bells and flowers.

Although the find-spot of the toy-cart that has been exhibited is not known, the discovery of a similar one at Kosam shows that this must have also come from that place. Miniature carts in metal and terracotta as children's favourite toys have been known from ancient times in India. A little clay cart for a child is mentioned in the well-known Sanskrit drama called, the *Mrichchhakatika*, composed by Śūdraka.

Mr. Charu Chandra Das-Gupta said :—

The present speaker opines that one terracotta panel representing a toy-cart discovered by the late Sir Alexander Cunningham in the ruined mounds of Newal should be compared with the present exhibit for some points of similarity (Archæological Survey of India, Reports, Vol. XI, p. 53, pl. XVIII, No. 3, 1880). This specimen which is $7\frac{1}{2}$ in. high is mutilated; but much remains to show that it is a cart drawn by bullocks with a man seated above and holding something by the right hand. It is also interesting to note that this man is not the driver as he is not facing to the front but to the back when the cart, from the movement of the hind legs of the bullocks, appears to be in motion. From this it may be possibly surmised that one or more human beings were represented, facing him in an attitude of talking to him in the mutilated back portion of the cart. In the like manner there might have been represented the driver in the front portion of the cart.

Dr. Suniti Kumar Chatterji said :—

Two things are noticeable in the fragmentary terracotta with the convivial party in the cart. The idea was to depict a group of people seated on a plane. The modeller could not manage the figures in the round—he did them in bas relief. There are ancient Greek terracottas in which we find quite a successful rendering of two or more figures in the round forming parts of the same group. In Negro terracottas of West Africa, this kind of grouping of figures in round forms a very attractive feature. Then again, it is noticeable that there is considerable amount of movement and character in the figures. There are musicians, whose characteristic attitudes are very striking. The figures of the men with tray of refreshments between them are also done with considerable vigour.

The dress and the general style of ornamentation and the appurtenances certainly indicate that this fragment is Sunga, and pre-Christian.

Mr. U. Shanker Rao said :—

It seems to me from the shape of the axle that behind it possibly lies an attempt to distribute the pressure on the wheels. The axle does not appear to be quite straight and it will be noticed that there is a small knob on it at either journal end. Possibly the model is a poor specimen of the actual cart and does not show all the details. But these knobs were perhaps in a different position on the axle allowing the wheels more play and diffusing the pressure on the bearings. A recent issue of a motor-ing magazine gives an interesting description of the axle arrangement on bullock carts, and I am inclined to believe from the shape of the axle in the terracotta model that that was one of the earliest attempts made to achieve a better distribution of pressure on the wheel bearings. Springs do not seem to have been used on the axle.

Mr. Percy Brown said that the particular example exhibited had evidently been prepared by being pressed in a mould, most probably a terracotta mould. The model also suggested some primitive form of spring to the axle of the cart wheel, which he thought rather early for this to appear.

After the showing of the exhibits the following communication was made :—

1. N. BARWELL.—*Influence of Oriental motifs upon book-bindings in Europe from the 15th to the 18th century.*

From the earliest times in Europe leather was used to cover the boards which in fact formed the preservative cover for manuscripts. Prior to these protective measures literature was not preserved in a form to which the word 'book' could properly be applied. The earliest decorative bindings were those on which stamps were made from the impress of metal seals. The designs of these seals or dies tended to be heraldic in character. In the nearer east the art of Arabia and Persia lent itself to decorative book-binding; and ornament, arabesque in origin and character, reaches a high degree of perfection in the illumination of manuscripts and as an adornment to book covers in Persia. The materials used for book covers in Persia were peculiarly suited for developing a design whose main characteristics are to be found similarly developed in ceramics, in textile fabrics, in embroideries, and in chased metal work.

By the beginning of the 16th century objects of art of oriental workmanship, especially those from the Middle East, were finding their way to Europe, where, from the first, they were highly prized. They entered Central Europe by the great Italian ports of Venice and Genoa. The Turks—never an artistic race—brought practically nothing of beauty with them, though they penetrated to the gates of Vienna and held many a Danubian position of strength from Budapest to the Black Sea. Oriental art, however, made a direct entrance into Spain: and by the Spaniards was carried to the north-west of Europe when they took possession of the Netherlands. Some slight influence is observable in Russian book-binding. But, for the most part, the influence moves through Italy into

France and thence into England, where it greatly affects design during the 16th century.

The communication was illustrated partly by specimens of work in possession of the Society, but more by reference to coloured and other reproductions of decorative book-bindings in Mr. Hobson's Book-bindings in Cambridge Libraries, a work towards which the author, in some sense, personally contributed.



SEPTEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRANATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President, in the Chair.

Members :

Agharkar, Dr. S. P.
Brown, Mr. Percy
Chanda, R.B. R.
Driver, Mr. D. C.
Flury, Mr. E. C.
Gangoly, Mr. O. C.

Hobbs, Mr. H.
Hosain, Dr. M. H.
Jenkins, Dr. W. A.
Rahman, Mr. S. K.
Sen, Mr. J. M.
West, Mr. W. D.

Visitors :

Acharji, Mr. M. N.
Choudhuri, Mr. S. P.

Husain, Mr. S. Wajahat
Sarkar, Mr. Sasanka

Before opening the meeting, the Chairman announced that His Excellency the Viceroy and Governor-General of India had been graciously pleased to become a Patron of the Society.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of twenty-four presentation of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(18) *Mandhata, H. C.*, M.A. (Allahabad), Teacher, formerly Lecturer in History, Agra College; Ghaziabad, Meerut.

Proposer: Sir Upendranath Brahmachari.

Seconder: M. Hidayet Hosain.

(19) *Gangooly, Phanindra Lal*, M.A., Lecturer in Mathematics, Calcutta University; P-507, Rash Behari Avenue, Calcutta.

Proposer: Sir Upendranath Brahmachari.

Seconder: S. L. Hora.

(20) *Sarkar, Bijali Behari*, M.Sc. (Cal.), D.Sc. (Edin.), F.R.S.E., Lecturer in Physiology, Calcutta University; 33/3, Lansdowne Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : N. G. Majumdar.

(21) *Singh Roy, The Hon'ble Sir Bijay Prasad*, Kt., Minister, Government of Bengal; 15, Lansdowne Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : M. Hidayet Hosain.

(22) *Sinha, Jadunath*, M.A., Ph.D., Premchand Roychand Scholar, Professor of Philosophy, Meerut College, Meerut, U.P.

Proposer : B. R. Chatterji.

Secunder : M. Hidayet Hosain.

(23) *Ram, Daulat*, Accountant, Military Secretary's Office, c/o Messrs. Biru Mal Chiranjil Lal, Chhatta Magni Ram, Patiala.

Proposer : M. Hidayet Hosain.

Secunder : J. N. Mukherjee.

(24) *Bagchi, Kumar Nath*, Rai Bahadur, B.Sc., M.B. (Cal.), D.T.M. (Cal. & L'pool), F.I.C. (Lond.), Chemical Examiner to the Government of Bengal, Medical College, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : M. Hidayet Hosain.

(25) *Williams, N. T.*, Messrs. Orr, Dignam & Co., 32, Dalhousie Square, Calcutta.

Proposer : Sir M. N. Mukherjee.

Secunder : Sir B. L. Mitter.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(5) Dr. Snouck Hurgronje (An Honorary Fellow, 1927).

(6) Lt.-Col. R. Knowles (An Ordinary Member, 1920; Ordinary Fellow, 1927).

The Chairman called upon Dr. M. Hidayet Hosain to read an obituary notice of Dr. Snouck Hurgronje (see page 185).

The Chairman then read an obituary notice of Col. Knowles, written by Dr. L. E. Napier (see page 187).

The General Secretary reported receipt of news of the death of :

Sir Alexander Stow (An Ordinary Member of the Society from 1923 to 1934).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(11) Bisweswar Bhattacharya (An Ordinary Member, 1908).

(12) Amareswar Thakur (An Ordinary Member, 1932).

(13) Baron Ow-Wachendorf (An Ordinary Member, 1934).

(14) Nawab M. Muzammil-Ullah Khan (An Ordinary Member, 1921).

The General Secretary reported that there had been no lapses of election, since the previous meeting.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The Chairman announced that in accordance with Rule 45, the Council submit for confirmation to the meeting the following change in the constitution of the Council, made in one of the Council Meetings, held since the last Ordinary Monthly Meeting :—

Library Secretary—Mr. Percy Brown, *vice* Dr. A. M. Heron, who has gone on leave.

The appointment was confirmed.

After these announcements, the Chairman vacated the chair, which was then occupied by Mr. Percy Brown, Member of Council and Library Secretary.

Papers were presented as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The Chairman announced that, unless special notice was given, there would be no Ordinary Monthly Meeting during the recess month, October.

The following papers were read :—

1. COL. I. FROILANO DE MELLO.—*Further Contributions to the Study of the Blood Parasites of the Indian Birds, together with a List of the Hemoparasites hitherto recorded.*

In this paper the author gives a complete list of the Hemoparasites recorded from Indian birds and discusses their classification and relationships. In addition, he describes a number of new species of Hemoproteids which he has studied in detail from Nova Goa and other places.

2. A. BANERJI-SASTRI.—*The Nāgas in the 3rd and 4th Centuries A.D.*

According to V. A. Smith the history of India in the 3rd century A.D. is wrapped in obscurity at present impenetrable. Mr. K. P. Jayaswal challenges this view and endeavours to prove that there was a mighty Bhāraśiva Nāga empire from c. 31 B.C. to 284 A.D. that merged in the Vākātaka empire (c. 284 A.D. to 348 A.D.). Mr. Jayaswal's reconstruction is based on two lines of a single inscription. After an examination of the evidences the writer concludes "As such a Bhāraśiva Nāga Empire must remain, pending further corroboration, a figment of the imagination". A large number of independent States flourished in Northern India side by side in the 3rd and the 4th centuries A.D. The writer also criticises the views of

Mr. Jayaswal relating to the Nāgas of Vidisa and in conclusion discusses the chronology of the other contemporaneous Nāga dynasties including one founded by Nava.

Mr. W. D. West asked :—

What were the two lines of the inscription, on which Mr. Jayaswal based his conclusions ?

Rai Bahadur R. Chanda replied : V. A. Smith's remarks that the history of India in the 3rd century A.D. is wrapped in obscurity refers to the dynastic and not to the cultural history. There are specimens of sculpture that may be tentatively assigned to the 3rd century A.D.

Mr. Percy Brown said that although no doubt there was obscurity in the dynastic history of India in the 3rd century A.D., a view first advanced by R. C. Datta, and afterwards confirmed by V. A. Smith, this did not apply to the cultural history of the country, the course of which is fairly clear owing to the notable artistic and architectural records of the period that have been preserved. The excavations at Taxila, the collections at Mathura and other historical sites which have been explored shed considerable light on the conditions that prevailed in the north, while the stupa of Amaravati is evidence of Buddhist activity in the south. It appears that from its cultural aspect the 3rd century A.D. was a period more of stagnation than obscurity, yet on the political conditions of the country at this time any reliable data would be most valuable.

3. SASANKA SEKHAR SARKAR.—*The Social Institutions of the Mālpāhāriās.*

The Mālpāhāriās are an aboriginal tribe occupying the southern portion of the Rajmahal hills in the Santal Parganas who have adopted Hinduism and most of whom speak a Bengali dialect. The Mālpāhāriās of the Dumka sub-division are divided into eleven social groups or septs. Marriage tie is very loose among them. The writer attributes this to excessive alcoholism. The Mālpāhāriās at present use Bengali terms of kinship of which a list is given. He also describes the name-giving, marriage, and funeral rites of the tribe.

4. SAYYID WAJAHAT HUSAIN.—*Āzād Bilgrāmī.*

In this paper the author deals with an exhaustive life-history, and the contributions to Islamic literature of as-Sayyid Ghulām 'Alī Āzād bin as-Sayyid Nūḥ al-Husainī al-Wāsiṭī, otherwise known in the literary world as Āzād Bilgrāmī.

Āzād's early life and nativity. Scholastic career under Mawlānā 'Abd al-Jalīl and Sayyid al-'Arifīn Mīr Sayyid Luṭ-fallāh. Itinerary in Northern India and Southern India. Acquaintance with Nawwāb Āṣaf Jāh of Deccan, and subsequent enlistment as a soldier in his army. Pilgrimage to Mecca. Death.

The author gives a detailed list of the works of Āzād and marks him out as an erudite scholar and linguist with mastery in Arabic, Persian, Sanskrit, Urdu, and Hindi, well worth the appellation *Hassān al-Hind*. He also points out that the literary activities of Āzād were not confined to linguistics alone,

but extended to a wide field including literature, history, poetry, biography, and the Ḥadīth, placing him among the foremost writers of his age.

Mr. *Wajahat Husain* said :—

Āzād Bilgrāmī was born on Sunday, the 25th Ṣafar, 1116 A.H. (1704 A.D.), in Maidānpūra, a locality in Bilgrām. He received his early education from Mīr Ṭufail Muḥammad and as-Sayyid Muḥammad bin 'Abd al-Jallī. Next he studied under his maternal grandfather as-Sayyid 'Abd al-Jallī Bilgrāmī. After completion of his studies he was appointed as Paymaster General at Sīvistān in Sind in which capacity he served for about 4 years and after tendering his resignation returned home. Three years later, he set out on pilgrimage on foot and reached Saronj in Mālwa. He served in the army of Nawwāb Āṣaf Jāh and on the termination of the war with the Mahrattas proceeded on his journey to the Sacred Place. He stayed with Muḥammad Fākhir Ilāhābādī and after pilgrimage read Ḥadīth from ash-Shaikh 'Abd al-Wahhāb at-Ṭanṭāwī. Then he visited the famous shrines in Ṭā'if and Jedda and dedicated the last part of his life to teaching and writing books. He died in 1200 A.H. (1785 A.D.) and was buried at Aurangābād, Deccan.

Āzād was an erudite scholar and well versed in numerous branches of learning. His literary achievements won for him the celebrated appellation of *Hassān al-Ḥind*. As a scholar and linguist he acquired a fame which few people can attain and had command over Arabic, Persian, Sanskrit, Urdū and Hindi. His literary activities marked for profundity and elucidity cover a wide field ranging over Ḥadīth, literature, history, poetry and biography.

A brass Utensil pierced by Hail-stone on 8th March, 1936, collected by Dr. J. N. Mukherjee, could not be exhibited on account of his unavoidable absence.

NOVEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRANATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President, in the Chair.

Members :

Bagchi, Mr. K. M.
Bose, Mr. M. M.
Chanda, R.B. R.
Brahmachari, Dr. P.
Brown, Mr. Percy
Guha, Dr. B. S.
Haq, Mr. M. Mahfuz-ul

Hobbs, Mr. H.
Hossain, Dr. M. H.
Mukherji, Dr. J. N.
Mullick, Mr. M. L.
Wadia, Mr. D. N.
West, Mr. W. D.

Visitor :

Ghosh, Mr. P. K.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of sixteen presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidate had been elected an Ordinary Member during the recess month, under Rule 7 :—

(25) *Bothra, Subhakaran*, B.A., Land-holder and Student, 3 Vivekananda Road, Calcutta.

Proposer: A. F. M. Abdul Ali.

Secunder: D. R. Bhandarkar.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership since the previous meeting, by resignation :—

(15) *Mirza Mohammed* (An Ordinary Member, 1932).

(16) *R. C. Hobart* (An Ordinary Member, 1928).

The General Secretary reported that there had been no lapses of election, since the previous meeting.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

Papers were read as detailed below.

Exhibits were shown and explained as detailed below.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The following paper was read :—

1. *PADMANATH BHATTACHARYYA*.—*Location of the Land granted by the Nidhanpur Grant of Bhāskara-varman of Kāmarūpa.*

This article is a rejoinder to a paper with the same title that was published in the Society's Journal in last April by Dr. N. K. Bhattasali, in which the writer had concluded that the location of the land granted by Bhāskara-varman was in Sylhet. In this paper, the author has endeavoured to prove that the location of the land related to a place in Rangpur and not in Sylhet. Arguments. Interpretation of the inscription. Discussions.

The following exhibit was shown and commented upon :—

1. *J. N. MUKHERJEE*.—*A brass Utensil pierced by Hail-stone on 8th March, 1936.*

On the 24th Falgun, 1342 B.S. (8th March, 1936), there was a gust of wind accompanied with slight rain which lasted about 10 minutes in the vicinity of Mondalgram, P.S. Satgachia, Dt. Burdwan. It took place at about 7-30 P.M. Next day at

6-30 P.M. there was a severe hailstorm (Nor'wester) in the locality; the unusual feature was the large size of the stones and the velocity with which they came down. Mr. Rabindranath Bhattacharyya of the above village, who was coming from a neighbouring village, was caught in the storm and was rendered unconscious. On regaining consciousness he attempted to reach the village but swooned again. He was later rescued in time by some men. Gour Bagdi, of village Koshigram, P.O. Nashigram, P.S. Bhatar, Dt. Burdwan, and another person are reported to have died near the same spot. The police it is reported removed the bodies. Mr. Bhattacharyya states that the stones were about a pound in weight. He tried to protect himself with his umbrella but he fell down and felt as if he had been struck by a log of wood. He was attended to by a medical man of the village, Dr. Anil Mukherjee. He was in a state of stupor till 2 A.M. and had 102° temperature. The fever persisted for eight days and he was confined to bed for twelve days. It was reported that brass utensils lying on the shaded veranda of houses in the village were pierced by the hailstones leaving holes as if they were struck by bullets. One of these brass utensils is exhibited. Raneegunge tile roofs have also been broken through, stones passing into the interior of the house. Palm trees have been denuded of their leaves and barks torn off on the side on which the stones struck. As often happens in such storms corrugated iron roofs of a house were bodily removed. Some of these corrugated iron sheets have been flattened by the impact.

Mr. H. Hobbs said:—

What do we know about hail? To me, hail is one of the most remarkable of Nature's phenomena. We are told that it is frozen vapour, clouds suddenly turned into ice—but is it?

Hail is almost unknown in Rangoon but fifty years ago I saw pieces of ice as big as my fist fall during a hail storm there. At Shwebo, Upper Burma, in December, 1922, a hailstone was found to weigh four pounds.

It is on record that about 1870 a hailstone as big as an elephant fell in South India. I cannot prove it but it may be true.

At Angola, in Portuguese West Africa, a hailstorm caused the death of a large percentage of the people. The temperature dropped from over 100 to between 40 and 50 and the change was fatal to so many. I have seen drifts of hailstone three feet deep in Calcutta. On June 4, 1927, hail in Kansas U.S.A. piled into drifts from 8 to 15 feet deep. Fields were rendered as bare as a highway. Horses, cattle, pigs, sheep, smaller animals and birds were killed by the hundred. Many of you must remember the hailstorm many years ago which killed thousands of crows. Under one tree on the Calcutta Maidan I counted 281 dead crows. On May 1, 1888 (one of the hottest years I ever experienced), 250 human beings were killed by hail in the Moradabad District.

In Trichinopoly Cantonment on May 11, 1929, a hailstone was picked up on the roof of a house, twenty minutes after the hailstorm had stopped. It measured 4 and $\frac{1}{16}$ th inches long. Another was picked up that was over 5 inches in diameter.

At Potter, Nebraska, U.S.A., on July 6, 1928, a hailstone measured 17 inches in circumference and weighed 24 ounces.

On June 15, 1929, at Cazorla, Spain, houses were crushed under the weight of the ice that fell.

25,000 people harvesting fruit, farmers and labourers were thrown out of work by a hailstorm in Hungary in 1922.

Herd of mammoth elephants, 15 feet high with long hair covering their bodies, are found in the ice in Siberia today. Every three or four years a ship is filled with their ivory and bones and sent to England where there is a pukka market for mammoth ivory and bones. It is estimated that these elephants have been 50,000 years or more in the ice.

The elephants' heads are said to all face the north. Whole herds must have been overwhelmed at one time. The flesh is edible today. Without being a scientist I incline to the belief that these animals were the victims of a hailstorm. Had they been in search of water they would have scattered. Being close together it looks as if ice had smothered them. The fact that the flesh is still wholesome proves that the interval of time between living and frozen must have been extremely short. Other explanations may be given; that is mine. It is possible that the climate of the whole world could be changed by hail. But, as I asked before, what do we know about hail?

Rai Bahadur R. P. Chanda enquired about the size of the stones and the metal of the utensil.

Dr. Mukherjee said:—Some weighed about 2 lbs. and even more. I presume that the metal is brittle and that may explain. Besides, the acceleration due to gravity has probably been aided by the velocity of the wind.



DECEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., Vice-President, in the Chair.

Members :

Bose, Prof. M. M.
Bothra, Mr. S. K.
Brown, Mr. Percy
Chakravarti, Prof. C.
Dods, Mr. W. K.
Dugin, Mr. L. S.
Gurner, Dr. C. W.
Harley, Mr. A. H.
Hobbs, Mr. H.

Jack, Hon. Mr. Justice, R. E.
Jenkins, Dr. W. A.
Kavyatirtha, Mr. R. D.
Lal, Mr. R. B.
Manon, Mr. Johan van
Mukherjee, Dr. J. N.
Prashad, Dr. Bani
Wadia, Mr. D. N.

Visitors :

Banerjee, Mr. A.

Esteller, Fr. Dr. A.
Rankin, Mrs. E. H.

The minutes of the last meeting were read and confirmed.

The General Secretary reported of six presentations of books, etc., which had been placed on the table for inspection.

The General Secretary announced that the following candidates would be balloted for as Ordinary Members :—

(27) *Basu, Indubhusan*, M.D. (Cal.), Medical Practitioner, Associate Professor of Medicine and Visiting Physician, Carmichael Medical College ; 19, Vivekananda Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(28) *Dutt, Raghunath*, Merchant, 167, Old China Bazar Street, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(29) *Mitra, Sarat Chandra*, M.L.C., Landholder, 34, Shampūkur Street, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : Percy Brown.

(30) *Daga, Madangopal*, Merchant and Landlord, 374, Upper Chitpore Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(31) *Banerjee, Satyendra Mohan*, B.A. (Cal.), M.A. (Cantab.), I.C.S., Secretary, Board of Revenue, Bengal ; 18/1, Ballygunge Circular Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : Percy Brown.

(32) *Sen, Dharendra Nath*, Merchant and Landlord, 7, Rawdon Street, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(33) *Gillespie, Andrew Dollar*, Chemist and Senior Partner, Messrs. Bathgate & Co., 17, Old Court House Street, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(34) *Ghosal, Saradindu Mohan*, M.B. (Cal.), M.R.C.P. (Lond. & Edin.), Lecturer in Medicine, Prince of Wales Medical College, Patna.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(35) *Bose, Ambuj Nath*, M.B.E., M.D. (Lausanne), F.R.C.P. (Edin & Lond.), Lt.-Col., I.M.S., Medical College, Patna.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(36) *Banerjee, Tridib Nath*, M.B., M.R.C.P. (Lond. & Edin.), Professor of Medicine, Medical College, Patna.

Proposer : Sir Upendranath Brahmachari.

Secunder : J. N. Mukherjee.

(37) *Mookerjee, Benode Gopal*, Zemindar and Merchant, 'Bakulia House', Kidderpore, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Seconder : Phanindranath Brahmachari.

(38) *Austin, Arthur C.*, Civil Engineer, Deputy Chief Engineer, B.N. Railway, 16, Garden Reach Road, Calcutta.

Proposer : Sir Upendranath Brahmachari.

Seconder : Phanindranath Brahmachari.

The General Secretary reported that an application for Institutional Membership had been received from:

(10) The President, Forest Research Institute, Dehra Dun,

which had been accepted by Council.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :

(17) *Gopichand Chopra* (An Ordinary Member, 1928).

The General Secretary reported that, in accordance with Rules 37 and 38, the names of the following Ordinary Members would be suspended as defaulters within the Society's building for the period of a month, to be removed from the Society's registers for non-payment, unless the amount due be paid before the next monthly meeting:

(1) Shiv Bandhan Pande	..	..	Due Rs.72.
(2) G. T. Sutling	..	..	Due Rs.66.
(3) J. P. Shukla	..	..	Due Rs.72.
(4) S. P. Sinha	..	..	Due Rs.72.

In accordance with Rule 40, the General Secretary reported that the names of the following members had now been removed from the member-list of the Society.

- (1) Count Bassewitz.
- (2) Andrew Fleming.
- (3) R. Friel.
- (4) R. Y. Jarvis.
- (5) Thornton Jones.
- (6) Hans. Koester.
- (7) C. E. Lomax.

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that

(1) M. S. Bahkt (elected on 6-7-36)

had withdrawn his application for membership.

The General Secretary reported that the Council, since the previous meeting, had co-opted Rai Sir Upendranath Brahmachari Bahadur, as a member of the Standing Committees of the Society for the remainder of the year.

Papers were read as detailed below.

Exhibits were shown and commented upon as detailed below.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

The following papers were read :—

1. A. BANERJI.—*A Buddha Image from Kurkihār.*

Kurkihār is now a small village, about 23 miles east of Bodh-Gaya. It was visited by Major Kittoe in 1846 and 1848 who dug up a large number of statues from one of the mounds and deposited them with the Asiatic Society of Bengal, from where these have now found a place in the Indian Museum, Calcutta. The place was also visited by the late Sir Alexander Cunningham during the working season of 1861-62. After Cunningham's visit, Kurkihār remains neglected and its mounds became the favourite quarries of modern builders. The site has recently gained public notice by the accidental discovery of a large number of metal images of the Pāla period described by Mr. K. P. Jayaswal.

In this paper the author describes one of the sculptures, a Buddha image, found at the place. The image is made of black basalt and measures 4' 9" × 2' 9". He identifies the image as belonging to the Pāla period about the 11th or 12th century A.D.

2. A. H. HARLEY.—*Abu Nukhailah. A post-classical Arab Poet.*

A biographical account of a well-known poet of the post-classical period of Arab literature, with translated specimens of his compositions, especially of those in *rajaz*-metre, in which he attained considerable celebrity. A note is added on the period of the efflorescence of this metre.

3. S. N. CHAKRAVARTI.—*A sculptured Lintel of Gupta Date from Sārnāth.*

A door lintel with reliefs on its lower face was discovered during the excavations at Sārnāth in 1907-08. The face on which the reliefs are found is divided into six panels. The intervening four panels illustrate a Jātaka scene. Pandit Daya Ram Sahni identified the scene with the Pāli version of the Khāntivādi Jātaka. The writer of this paper, however, identifies the scene with the Kshāntivādi Jātaka in the Jātaka-mālā, a Sanskrit rendering of only thirty-four Jātakas, ascribed to Ārya-Sūra.

4. G. E. GATES and M. HLA KYAW.—*The Clitellum and sexual Maturity in the Megascolecinae.*

Earthworms of the sub-family Megascolecinae either copulate in an acitellate condition or else in a clitellate condition after which the clitellum disappears.

An attempt is described to discover if the second alternative is a correct explanation.

The following exhibit was shown and commented upon :—

1. CHINTAHARAN CHAKRAVARTI.—*Little known Works of two celebrated Tantric Writers.*

An account will be given, on the basis of the manuscripts of the Royal Asiatic Society of Bengal, of the *Tārāpradīpa* and the *Kālītattva*, two little known works respectively by Lakṣmaṇa Deśika and Rāghava Bhaṭṭa, who are well-known as the author and the commentator of the famous Tantric work the *Śāradātilaka*. MSS. of the works are comparatively rare specially in comparison with those of the *Śāradātilaka* and its commentary. The MSS. that have already been reported are scarcely accessible belonging as they do to private collections many of which are no longer traceable. The Society's MS. of the *Tārāpradīpa* brings up the total number of the known MSS. of the work to six all of which except the one in the State Library of Bikaner are in the Bengali script, showing that the work was little known outside Bengal. Though several MSS. of the *Kālītattva* were reported all that was known of the work was through a short notice by R. L. Mitra in the *Descriptive Catalogue of Sanskrit MSS. in the Library of His Highness the Maharaja of Bikaner*. The Society possesses two MSS. of the work, one of which in the Nāgarī script is fragmentary while the other in Newarī script, acquired very recently, is nearly complete with seventeen chapters and is in a fine state of preservation.

Mr. Chintaharan Chakravarti said:—

The works deal with the details of the worship of Tārā and Kālī, the two popular deities that are not treated of in the otherwise comprehensive treatises—the *Śāradātilaka* and the *Prapañcasāru*. It is not unlikely that they were intended to supplement the former with which both the authors were closely associated. Manuscripts of the *Tārāpradīpa* have been noticed by R. L. Mitra (*Notices of Sans. MSS.*, I, 236, 284; *Cat. Sans. MSS. Library, Maharaja of Bikaner*, p. 618), H. P. Shastri (*Notices of Sans. MSS.*, III, 128) and the exhibitor (*Descr. Cat. Sans. MSS., Vangīya Sahitya Parishat*, p. 58). Only two of these MSS. are known to be complete while none of them are dated. The MS. of the Society is, however, both complete and dated. It was copied in 1673 S.E. All the MSS. that have been reported of the work, except the one in Bikaner, are in the Bengali script. The popularity of the work thus appears to have been restricted within Bengal where Tantric digests like the *Tantrasāra* and the *S'yāmārahasya* refer to and quote from it. But the work seems to be little known in these days in Bengal or elsewhere. Scholars like Arthur Avalon were not aware of the existence of this work or of any

other work of Lakṣmaṇa except the *Sāradātīlaka*¹ though a number of them are referred to in the *Catalogus Catalogorum* (Vol. I, p. 536). It is a metrical work divided into five chapters (except in the MS. described by Shastri which contains six chapters). It is based on a number of original Tantra texts which are enumerated in the beginning of the present work. It is an independent treatise having no connection with the *Sāradātīlaka* though it is suspected by some people to be a commentary on the latter (*Catalogus Catalogorum*, I, 536). The name of the author is given as Lakṣmaṇa Deśikendra in the colophons to each chapter as well as in one of the introductory verses. In the MS. described by H. P. Shastri this verse as well as the last colophon read respectively *Yādava Paṇḍita* and *Yādavācārya* in place of Lakṣmaṇa Deśika of the other MSS.

The *Kālitattva* (called *Kālitattvarahasya* by R. L. Mitra) which is complete in 21 chapters quotes from and refers to a number of original Tantra works and in one place quotes from the author's commentary on the *Sāradātīlaka*² which was composed in 1550 V.S. (1494 A.D.). No Tantra digest is found to have been referred to though many of them are stated to have been consulted for the preparation of the work. The name of the author is given in one of the introductory verses as well as in the chapter colophons.

No genealogical accounts of the authors, as found at the end of the *Sāradātīlaka* and its commentary by Rāghava are found here. A fragmentary MS. belonging to the Society of a work of Rāghava's grandson called the *Bhuvaneśīprakāśa*, however, shows that the long line of scholars which preceded Rāghava in his family did not end with him but was continued after him by his descendants. Vaidyanātha, for that is the name of the author of the *Bhuvaneśīprakāśa*, a work dealing with the details of the worship of Bhuvaneśvarī, introduces himself as the grandson of Rāghava Bhaṭṭa who is represented as one who crossed the ocean of learning.

1. M. MAHFUZ-UL-HAQ.—*A valuable Manuscript of an Urdū romantic Poem (Mathnawī) composed by Sharaf-un-Nisā, a lady of Murshidābād (Bengal).*

On account of absence of the exhibitor this exhibit was postponed to the next meeting.

¹ Preface to the edition of the work in the Tantrik Texts Series, p. 2.

² न च

उल्लेखैव विधानेन ज्ञानं कृत्वा तु मान्त्रिकीम् ।

वैदिकीं तान्त्रिकीं सन्ध्यां कृत्वा तर्पणमाचरेत् ॥

इति शारदाटीका-विरोध इति वाच्यम् । (Fol. 6A of the Newari MS.)

The verse quoted is found in Avalon's edition of the work (p. 238).

OBITUARY NOTICES.

SIR RAJENDRA NATH MOOKERJEE.

(1854-1936.)

By the death of Sir Rajendra Nath Mookerjee at the age of 82 on May 15, 1936, the Society loses a Life Member, an Honorary Fellow and a past President.

Born in 1854, in Bhabla, a village near Basirhat, 24 Perganas, Rajendra lost his father early in life and had to depend on his relatives for his education. He entered the Engineering College and later chose the independent business of a contractor.

The reputation which Rajendra Nath acquired as a partner of Messrs. T. C. Mookerjee & Co., won him the favour of a call from the then Mr. (Sir) Acquin Martin who offered him a share in his Company. On Sir Acquin's death, the young Rajendra became a senior partner of Messrs. Martin & Co. Under his guidance the firm showed steady progress and it is at present a leading business organization including the firms of Martin & Co., Burn & Co., the Indian Iron & Steel Company and the Indian Standard Waggon Company.

Besides his business activities, Sir Rajendra was connected with various institutions. He was Secretary of the Calcutta Orphanage, and one of the founders of the Calcutta Club which was started as a place of meeting for Europeans and Indians on equal status. The valuable services he rendered in connection with the Victoria Memorial Hall secured for him a K.C.V.O. in 1922. At the Delhi Darbar in 1911 the King Emperor honoured him with a K.C.I.E.

In 1911 Sir Rajendra was Sheriff of Calcutta. He was for some time Chairman of the Industrial Commission and the Institution of Engineers in India. He was a Member of the Bengal Retrenchment Committee, the All India Retrenchment Committee, the India Coal Committee, the Royal Commission on Indian Currency and Finance and the Howrah Bridge Committee. He was also on the Board of the Imperial Bank of India.

Sir Rajendra delivered several interesting and impressive addresses, of which mention may be made of speeches delivered by him at the Allahabad Industrial Conference, 1910, the Annual Convocation of the Patna University, 1919, the Eighth Indian Science Congress, 1921 and at the Annual Meetings of the Asiatic Society of Bengal. He was the Chairman of the Board of Trustees of the Indian Museum for several years. He was a Fellow of the Calcutta University. A remarkable self-made man as he

was Sir Rajendra was a great personality, a mixture of tactful business discernment and amiable social courtesy. His charity is well known. His was a character of sublime self-confidence, a combination of a gentle heart, unbounded affection and hospitality 'to present to us a rich life which is indeed a triumph of character'. He took a very keen interest in the affairs of the Royal Asiatic Society of Bengal and his loss is deeply mourned by the Fellows and Members of the Society.

U. N. BRAHMACHARI.

PŪRAN CHAND NĀHAR.

(1875-1936.)

The death of Puran Chand Nahar which took place on May 31, 1936, at the comparatively early age of 62, has removed from the learned world of Calcutta and India one of its well-known personalities which was that of a fine scholar and antiquarian, a man of wide culture, and a true gentleman. Mr. Nahar came from the Nahars of Azimganj in Murshidabad District, Bengal, a family distinguished not only in Bengal but also in the rest of India for its public-spiritedness and its devotion to learning and culture, particularly in connection with Jainism. Born in 1875, he took his B.A. degree from the Presidency College, Calcutta, in 1895, and was the first graduate and lawyer among the Jains in Bengal, who are engaged mainly in banking and trade. In 1908 he became an M.A. of the University of Calcutta, and in 1914 he joined the High Court in Calcutta as a Vakil.

Mr. Nahar took a very keen interest in public activities of various kinds, educational, social, and cultural. He was prominent in his own community as a social reformer. For a long time he was connected with the University of Calcutta as an examiner for its various examinations. He was a member of the Benares Hindu University Court representing the Jain Śvetāmbar community of India. His favourite studies were in connection with the history and civilisation of ancient India in general and Jainism in particular, and in consequence he was a member of a great many Oriental and Indological Societies in India and abroad. He joined the Royal Asiatic Society of Bengal in 1908, and in his death the Society mourns the loss of one of its oldest and most prominent members and well-wishers. Mr. Nahar's erudition was recognised far and wide, and he was made an Honorary Correspondent of the Archaeological Survey of India. He also served the community in the capacity of an Honorary Magistrate in Murshidabad, a Com-

missioner of the Azimganj Municipality, and a Member of the Murshidabad District Board.

Mr. Nahar was a distinguished scholar of Sanskrit and Prakrit and published a number of books and papers in English, Bengali, and Hindi. His 'Jain Inscriptions' in three volumes is a corpus of over 3,000 inscriptions from all parts of India, and is valuable for Jain history and epigraphy. He was joint-author of an 'Epitome of Jainism', a comprehensive work on the history and philosophy of that religion.

He made a fine collection of Indian Paintings and Sculpture, Jain and other MSS. and books, and Indian coins and works of art, which are now housed in the *Kumar Singh Hall* at 46 Indian Mirror Street, an institution founded to commemorate one of his brothers. Rare and interesting things from his collections would be exhibited in the Society's premises on the occasion of its annual and other special meetings. He was widely travelled in India.

He has left behind him his widow and four sons and five daughters, besides grandchildren and great grand-children. In his private life, Mr. Nahar was a perfect gentleman whose charm of manner and innate goodness and sincerity and desire to serve and help others made him win the esteem and affection of all. He was one of the most popular figures in Calcutta and elsewhere, and his loss is keenly felt as a personal one among his many friends and acquaintances.

S. K. CHATTERJI.

DR. CHRISTIAAN SNOUCK HURGRONJE.

(1857-1936.)

The death of Dr. Snouck Hurgronje at the age of 80 removes an ardent worker in the field of Islamic research and scholarship. He was a connecting link between the great Islamic savants such as Prof. Dozy (d. 1883), Prof. De Goeje (d. 1909) and others of the past generation and the scholars of the present century.

Christiaan Snouck Hurgronje had been one of the greatest Arabic scholars and the foremost authority on all questions relating to Muhammadan Law.

Born in 1857 in Oosterhout in Holland, he began his studies with Semitic languages and later on he specialized in Arabic which he studied under the famous Nöldeke. In 1880 he obtained his Doctorate from the University of Leiden and subsequently became a Professor of Muhammadan Law at Delft, Holland, in the Institute for the Dutch East Indian Civil Service. In 1884 he went on his famous pilgrimage to Mecca where he lived in

disguise for almost a year and the result of his travels he published in his *Mekka* which is recognized as a standard work. This was translated into English by J. H. Monahan (Leiden, 1931). He was offered a professorship of Arabic at the Cambridge University in succession to Robertson Smith, which he refused preferring to continue with his studies on Islām in the Dutch East Indies. Similarly he declined a professorial chair in Germany and a professorship in Malay language and literature in the University of Leiden. In 1889, he was sent out to the Dutch East Indies on a special mission and in 1891 was appointed Adviser to the Dutch Government for Oriental Languages and Muhammadan Law. In that year, he went to Achin and there he lived as a native of the place for some time and subsequently published his work on the Achinese, *De Atjehers*, which is a standard work on the Achinese. This book was translated into English in 1906.

Dr. Hurgronje had been a prolific writer. His writings are collected and published in five volumes, known as *Verspreide Geschriften*. It is a valuable contribution on different Islamic subjects. He has also written the biography of Prof. Michael Jan de Goeje (d. 1909) under the title '*Levensbericht van Michael Jan de Goeje*' (Amsterdam, 1910).

Dr. Hurgronje was not only a competent Arabic scholar of rare distinction but also an expert in the many Islamic languages of Java and Sumatra, such as the Javanese, Sundanese, Madurese, Malay, Achinese and the like. The Royal Asiatic Society of Bengal elected him an Honorary Fellow in 1927, a distinction which is generally conferred on scholars of international repute. He was also an Honorary Member of the Royal Asiatic Society of Great Britain and Ireland.

During the last twenty-five years Professor Hurgronje had been a Professor of Arabic in the University of Leiden and according to the Dutch Law he had to retire from his appointment on his 70th birthday. His numerous admirers and friends all over the world had united to offer him their homage at the time of his Jubilee in 1927. A sum of over £2,000 was offered to him, which was utilized by him for the foundation of the Oriental Institute at Leiden. This institution has proved to be of great usefulness for Oriental research.

Wherever Islamic studies are cultured, Dr. Hurgronje's name is venerated, and even beyond the strictly Islamic field the importance of his contributions to linguistics, anthropology and many other branches of human learning are equally recognized.

M. HIDAYET HOSAIN.

LIEUT.-COL. R. KNOWLES.

(1883-1936.)

We announce with regret the death of Lieut.-Col. R. Knowles, C.I.E., I.M.S., which occurred in the early hours of the morning of August 3rd at the Carmichael Hospital for Tropical Diseases, Calcutta.

Robert Knowles was born on October 30th, 1883, in India where his father was a missionary. His early education was at Mill Hill School. He went up to Cambridge (Downing) in 1901; here he took his arts degree and commenced his medical studies. From there he went to St. Mary's Hospital, London, and in 1907 took his qualifying diploma, the M.R.C.S., L.R.C.P. It was at St. Mary's Hospital where he worked under Sir Almroth Wright that Knowles first acquired a taste for medical research which was to be the dominating influence of his whole life. He took the I.M.S. entrance examination in 1908 and passed into the service at the top of his batch. After four years of military service he achieved his first ambition, and was put into the then-newly-formed Bacteriological Department which afterwards became the Medical Research Department.

He was posted as Assistant Director at the Pasteur Institute, Kasauli. Here he came in contact with a number of people who had a considerable influence on his life and work—Harvey, McKendrick and, above all, Acton. His first work was carried out with Acton as his collaborator and together these two workers published some important papers on the action of snake venom, on halteridium in pigeons and on other subjects; the first volume of the *Indian Journal of Medical Research* contains eight papers by them. Knowles always maintained his interest in snakes and snake venom, although he had little chance of doing further work on the subject, and the work on halteridium gave him an introduction to protozoology, a subject of which he later became a master.

His work at Kasauli was interrupted by the war, and he was sent to Mesopotamia with the 11th Mahratta Light Infantry. He was wounded very badly in the leg in the battle of Ctesiphon and was mentioned in dispatches, and after a long stay in hospital in India and later in London he was posted as bacteriologist to Cumballa War Hospital in Bombay. As his leg wound had incapacitated him for active field service he was later transferred back to civil employment and was sent to Shillong to open the Pasteur Institute there. This was Knowles' first independent responsible post and he made a very great success out of it. The anti-rabic treatment was only a small part of the functions of the institute. It was practically the only laboratory in the province and it had to be organized to deal with an enormous amount of routine laboratory work. But this was not all; at that time kala-azar was beginning to increase alarmingly

in Assam and Knowles established a kala-azar ward and carried out an investigation on the treatment and on many other aspects of the disease. He worked out a scheme of dosage with sodium antimony tartrate—a drug that Sir Leonard Rogers had just introduced ; this scheme was followed for many years in Assam until the new pentavalent compounds came into general use.

It was during this time at Shillong that Knowles met Sir Leonard Rogers ; it had been at the latter's suggestion that he started the work on kala-azar. When Sir Leonard left India in 1920 he selected Knowles as his successor at the Medical College. He also left him the far more arduous task of starting the School of Tropical Medicine. Knowles decided to devote the whole of his energies to the latter task ; he was appointed secretary of the School and with the aid of Colonel Baptist (then Captain) organized the staffing and equipment of this large and important institution. The next year when the School opened he was appointed professor of protozoology, and he held this appointment until his death nearly sixteen years later.

He was determined that his classes in protozoology should be a success and he devoted an enormous amount of time and trouble not only to preparing his lecture notes but to collecting material from all over the world for demonstration specimens and for issuing to the practical classes. In 1923 he published his lecture notes in the form of a book which the students of the earlier years at the School found invaluable.

This would have been full-time occupation for most men but Knowles with his unbounded energy found time to carry out many important research investigations. He maintained his interest in kala-azar and actively co-operated in the research that was being carried out on the transmission of this disease. The paper that he wrote with L. E. Napier and R. O. A. Smith on the development of leishmania in the sandfly, *Phlebotomus argentipes*, opened a new phase in the investigation of this subject. It would be out of the question here to attempt to enumerate the various investigations which he carried out in the realm of medical protozoology ; his published papers covered a wide field, reporting investigations on trypanosomes, leishmania, spirochaetes, amœbæ, intestinal flagellates, and human and simian plasmodia. During his last years he carried out some very important investigations on monkey plasmodium, a strain of which, first discovered at the Calcutta School by some of his associates and distinguished from other simian plasmodia by Sinton, was named after him, *Plasmodium knowlesi*. He and his valued assistant Biraj Mohun Das Gupta were the first to transmit this plasmodium to man. This strain has recently been used in the treatment of neurosyphilis in Europe.

Perhaps Knowles will be best known for his excellent book on medical protozoology. For many years there was no satisfactory book on this subject for the student and it was always

Knowles' ambition to provide one. In the first few years at the School he felt that there were too many gaps in our knowledge to make a book on the subject worth while; he thought that it would be out of date before it was printed. However, at the beginning of 1927 he felt that the time had come to put his notes together and to fill in the gaps, and by the end of the year he had completed the manuscript for his book which he modestly called an *Introduction to Medical Protozoology*. When he had written more than half the book, Wenyon's classical work on this subject came out and Knowles wavered in his intention, but he considered that Wenyon's book did not quite meet the needs of the Indian student and he decided to finish his own book. The new matter which Wenyon's book presented made it necessary for him to expand and even re-write some of the sections that were already finished. The writing of this book was a gigantic task which he completed in an incredibly short time.

Other important books that he wrote were *On the Dysenteries of India* with Acton and on malaria with Mr. S. White.

On a number of occasions he officiated as Director of the Calcutta School of Tropical Medicine.

He was assistant editor of the *Indian Medical Gazette* from 1922 to 1928 and editor from 1928 to 1932; he devoted a very great deal of his time to editorial work and he did much to raise and to maintain the standard of this journal. He was a most facile and lucid writer, and his output was enormous.

During the last few years of his life ill health curtailed his activities; however even then he was not content just to do his routine duties and in 1934 he undertook the task of writing a comprehensive review of the work of the School of Tropical Medicine during the previous twelve years.

He was President of the Medical Section of the Science Congress in 1930 and his Presidential Address on the evolution of medical protozoology was an excellent example of Knowles' best work; it has frequently been quoted in this and other countries. He was always a great supporter of the Asiatic Society and he was for a long time Medical Secretary, and later for a number of years a Vice-President of the Society.

He was a foundation fellow and was also on the Council of the National Institute of Sciences of India.

He was given a C.I.E. in 1935, an honour which many of his friends considered he had earned years earlier.

The medical profession in India and medical research in particular have suffered a great loss through his untimely death.

PROCEEDINGS OF THE MEDICAL SECTION MEETINGS, 1936.

FEBRUARY.

A Joint Meeting of the Medical Section of the Asiatic Society of Bengal, the Calcutta School of Tropical Medicine, and the All-India Institute of Hygiene and Public Health was held in the Lecture Theatre of the Calcutta School of Tropical Medicine, at Central Avenue, on Tuesday, the 4th February, 1936, at 3 p.m.

PRESENT.

BREVET-COL. R. N. CHOPRA, C.I.E., M.A., M.B., I.M.S., F.A.S.B., in the Chair.

There were 5 members and 64 visitors present.

The following papers were read :—

1. A. C. UKIL.—*Bronchiectasis—its ætiology, diagnosis, prognosis and treatment.*

Dr. A. C. Ukil, at the request of the Chairman, Col. Chopra, I.M.S., addressed the meeting on Bronchiectasis—its ætiology, diagnosis, prognosis and treatment. The subject-matter of his address was the result of his investigations during the last 4-5 years. Bronchiectasis was thought to be comparatively infrequent in India and very little investigation has therefore been conducted on the subject. He believed that his investigation was the first of its kind in India.

The first result of the investigation was to show that bronchiectasis was fairly prevalent. A large number of cases of recurring hæmoptysis seen and thought to be due to tuberculosis was found to be cases of bronchiectasis after careful clinical, radiological bacteriological examinations (including guinea-pig inoculation), and lipoidal injection. Of 164 cases studied 80 showed evidence of bronchiectasis.

Four types of bronchiectic dilatations were noted. Cylindrical sacular, cystic and abscess. These were not distinct types, but merely marked the stages of dilatation present, which commenced simply as a cylindrical dilatation of the bronchial tubes and ended in big cavities denoting abscess formation. A diagram was put up illustrating these various types of dilatations.

Ætiology.—In America it was thought to be due to foreign bodies. In his series of cases there was no question of foreign bodies. His cases mostly occurred after infections like pneumonia or were due to infections with fusiform bacilli. 37% of cases occurred after lobar pneumonia.

Types of Bronchiectasis.—There was the congenital type and the acquired type, these in turn could be either of the wet or dry type according to whether much or no sputum was expectorated.

The congenital type was due to atelectactic conditions and were usually of the dry variety. The speaker referred to a patient who consulted him for dysentery. Examination showed rales to be present

over a large part of the chest. Lipoidal was introduced and extensive bronchiectasis was found in the upper lobe. There was no history of expectoration; wasting and clubbing of the fingers were absent and the case was undoubtedly one of congenital bronchiectasis.

The acquired type was seen usually in cases of recurring hæmoptysis. No T.B. found. Lipoidal injection showed cup-like dilatation. The hæmoptysis was probably due to rupture of the young blood vessels present in the granulation tissue. It was secondary to various diseases like pneumonia, influenza and measles.

A large number of skiagrams was shown demonstrating the various types of dilatation seen in bronchiectasis and illustrating the various types and ætiological factors commented upon by the speaker.

Diagnosis.—This rested on the history, clubbing of the fingers, diminished movement of the chest wall especially restriction of the affected side and the presence of rales. These rales were specially valuable. It was a sort of creaking noise audible during both inspiration and expiration. Lipoidal examination was the clinching test.

Prognosis.—Varies. In India the patients treated with palliative measures could carry on for years.

Treatment.—In children conservative treatment was best. Good hygienic surroundings, high caloric diet and fresh air. If much sputum was expectorated, do bronchoscopy and promote drainage. If fusiform bacilli or spirilla present give N.A.B. injections.

For chronic cases palliative treatment is of little value. Vaccines also do little good; but if given the vaccine should be prepared with organisms isolated from sputum obtained by bronchoscopy. Surgical treatment is best. Artificial pneumothorax may be done when no adhesions are present. Phrenic avulsion or thoracoplasty may be required or even lobectomy of the lung may be done. Tudor Williams gives a 8% mortality rate for such cases.

Discussion.

1. Dr. J. C. Gupta inquired whether among the palliative measures to be adopted postural treatment and lung exercise could be included as being beneficial.

2. Dr. Gurbux Singh wanted to know how the friction rales was produced and how it differed from friction sounds.

3. Dr. G. Panja inquired as to the percentage of the different types of micro-organisms present in the sputum of bronchiectasis cases.

4. Dr. Seal asked if there was any danger or unpleasant symptoms when lipoidal was given. One of his cases had nausea, vomiting and hæmoptysis and two cases showed symptoms of iodism after lipoidal treatment.

Dr. Ukil answering said that postural treatment was an old and backward method. To be done properly the patient should be kept at an angle of 45° for a fairly long time. Special tables were required and these were not available here. It also caused œdema of the mucus membrane which impeded free drainage. The treatment may however be adopted after bronchoscopy. When doing bronchoscopy one had to be careful, as the blood vessels of the granulating surface ruptured easily and a big hæmorrhage may be provoked.

As regards Dr. Gurbux Singh's question the lecturer said it was difficult to say how the rales were produced; possibly they may be produced by fibrosis and dilatation of the tubes; it was certainly not produced by friction. As regards the nature of the rales it was more a creaking noise rather than a friction sound. It was difficult to describe but easily demonstrated. Once heard it could thereafter be easily distinguished.

Turning to Dr. Panja's question, Dr. Ukil said hæmolytic streptococci were usually the predominating organisms, then non-hæmolytic streptococci. Gram positive spore bearing organisms were also present. Pneumococci and fusiform bacilli are found in 50% of the cases.

Answering Dr. Seal, Dr. Ukil said that he had experienced no after effects. Of course if lipoidal enters the tissues it causes some inconvenience. If swallowed it will be present in the stomach and may cause nausea. Brompton Hospital figures are one death among 1,064 cases.

Col. Chopra in bringing the discussion to a close thanked Dr. Ukil for the interesting lecture, the more so as it was the first of its kind in India. Lipoidal was not dangerous in expert hands. He added that he was surprised that there had been two cases of Iodism. He was indeed very grateful for the interesting paper.

2. K. V. KRISHNAN.—*The mechanism of hæmolysis in malarial hæmoglobinuria of monkeys.*

Summary.

With a view to finding out the nature of the hæmolytic agent, if any, that is responsible for hæmolysis and hæmoglobinuria in monkeys infected with *P. knowlesi* we studied the biochemical changes in the blood of the following four groups of infected monkeys, namely,

1. Splenectomised monkeys developing hæmoglobinuria.
2. Splenectomised monkeys not developing hæmoglobinuria.
3. Non-splenectomised monkeys developing hæmoglobinuria.
4. Non-splenectomised monkeys not developing hæmoglobinuria.

Special attention was paid to the following constituents: cholesterol—total, free, and ester; total fatty acids; inorganic and organic phosphorus; and glucose. The results indicate that hæmolysis and hæmoglobinuria are associated with a fall in free cholesterol and a rise in ester cholesterol; no change in total fatty acids; a rise in inorganic and organic phosphorus; and a fall in glucose. These changes when taken along with others suggest liver damage and an upsetting of the glucose and fat metabolisms. If this view is correct then it is possible that the hæmolytic agent, if any, responsible for the hæmolysis, is only a product of altered metabolism as for example a higher member belonging to the unsaturated fatty acid group and that it acts when free cholesterol is low. It is suggested that the agent causing hæmolysis in blackwater fever in man is also of a similar nature.

Dr. Krishnan said :

One of the unsolved problems in blackwater fever is that which relates to the mechanism of hæmolysis. The questions awaiting an answer are whether the hæmolysis is due to a simple phenomenon like osmosis or whether it is due to a more complicated process associated with

some chemical agent and if the latter what is the nature of this agent. Is it lactic acid? Is it an autohæmolysin? Is it a toxin elaborated by a specially virulent biological strain of the malarial parasite? Or is it some product of abnormal metabolism.

A large number of investigators have attempted to study these questions in human cases of blackwater fever but the results so far obtained have been very divergent and inconclusive. The chief reason for this has been, the lack of suitable experimental material. Firstly, it is common knowledge that blackwater fever cases are not too numerous even in the so-called endemic areas, and secondly it is not possible to make any serial observations in any one individual from the normal to the blackwater stage as can be done in experimental animals. The recent finding by Napier and Campbell of a monkey plasmodium capable of producing hæmoglobinuria in rhesus monkeys has to some extent overcome this difficulty and given a fresh impetus to the study of the problems connected with hæmolysis and hæmoglobinuria. The present position with regard to the relation of this plasmodium to hæmoglobinuria is :—

- (1) Ordinarily it causes hæmoglobinuria in about 30–40 per cent. only of rhesus monkeys.
- (2) It does not cause hæmoglobinuria in *irus* or *radiatus* monkeys.
- (3) After splenectomy the incidence of hæmoglobinuria is increased not only in rhesus monkeys from about 30 to 80% but also in the *irus* and *radiatus* monkeys from 0 to about 30–40 per cent.

This gives, so far as the *rhesus* monkeys are concerned four groups for study, viz. :—

- Splenectomised monkeys showing hæmoglobinuria.
- Splenectomised monkeys showing no hæmoglobinuria.
- Non-Splenectomised monkeys showing hæmoglobinuria.
- Non-Splenectomised monkeys showing no hæmoglobinuria.

Although in monkeys the hæmoglobinuria is associated with an intense parasitization and on that account some have suggested that the hæmolysis can be explained on the basis of mere sporulation of the parasites, a closer study of the condition has indicated that it would be necessary to assume that a hæmolytic agent is involved before a full and satisfactory picture can be had. If such an assumption is made then there are several methods of proving or disproving it.

Firstly, we can demonstrate that the plasma or serum of hæmoglobinuric monkeys causes lysis of red cells. This we tried to show but the results were inconclusive. A hæmolysin which acted in dilutions up to 1 in 100 was detected in 4 out of ten monkeys studied; three of these belonged to the hæmoglobinuric group and one to the non-hæmoglobinuric group.

Secondly we can try to isolate the hæmolysin by chemical methods. This could be done only if one knows what the nature of the hæmolysin was. We tried to do this in an indirect way by studying the 'idine number' but the results were unsatisfactory.

Thirdly, we can demonstrate by indirect means that a hæmolytic agent is present and obtain an idea as to what its nature is. This we have attempted to do by a detailed study of the biochemical alterations in the blood of the four groups of monkeys referred to with special reference to constituents such as cholesterol, glucose, organic and inorganic phosphorus. In all over a thousand estimations have so far been done and from the results obtained we are lead to believe that the factors involved in mechanism of hæmolysis are as follows :—

- (1) Free cholesterol plays an important part; when it is high it inhibits hæmolysis and when low favours it.

(2) The agent causing hæmolysis is one that is influenced by free cholesterol.

(3) The low glucose, the rise in inorganic phosphorus, lecithin and ester cholesterol all show hepatic embarrassment and abnormal metabolism of carbohydrates and fats.

(4) The increase of ester cholesterol and organic phosphorus suggests, probably, an increased output of fatty acids.

(5) Therefore it is concluded that the hæmolytic agent is a product of abnormal metabolism probably of the nature of an unsaturated fatty acid which acts not by virtue of its acid character but because of its inherent hæmolytic property. It is too premature to state what the significance of these results is to human blackwater fever. It is possible that the mechanism of hæmolysis is the same as in the monkey. Only that in the latter the predisposition is brought about rapidly while in man it is brought about slowly and steadily through repeated attacks of malaria in susceptible individuals.

Summary.—

Mechanism of Hæmolysis may be

A. Physical

1. Osmosis.

or B. Chemical

1. Acids (lactic acid).
2. Auto-hæmolysins.
3. Toxin of parasite.
4. Hæmolysin arising out of altered metabolism. (Unsaturated fatty acids lysolecithin.)

Evidence in favour of B. (4).

Marked depletion in glucose.

Increase of inorganic phosphorus.

Increase of organic phosphorus as lecithin.

Marked depletion of free cholesterol.

The hæmolysin acts when free cholesterol is low. Hæmoglobinuria occurs when reticulo-endothelial system fails to dispose of the hæmoglobin liberated.

Discussion.

Col. Chopra opened the discussion by saying that he found the lecture very interesting. He had worked on the subject of hæmolysis in connection with snake venom. He found that when lecithin was present hæmolysis occurred. He found no fall in cholesterol.

Dr. Krishnan said: In the case of snake venom it was well known that lecithin was required for the formation of lyso-lecithin. In the hæmoglobinuria of monkeys also the lecithin content was very high prior to hæmolysis. With regard to cholesterol we also did find a fall in the total cholesterol in a certain percentage of cases. But when cholesterol was estimated separately as free cholesterol and ester cholesterol a fall in free cholesterol was always present. Possibly if Col. Chopra had estimated the cholesterol content separately he also may have obtained similar results.

Dr. J. C. Gupta asked about the theory of lactic acid in hæmolysis and wanted information on the part, if any, the Reticular Endothelial System played in the causation of the condition.

Answer. The theory of lactic acid in the causation of hæmolysis is an old one. It depended upon the alteration of the Hydrogen ion concentration brought about by the acid. The recent work of Ross had shown that the necessary alteration in the H ion concentration could be only obtained when large quantities of acid were present and that this

large quantity was incompatible with life. The theory however in a way supports our findings of an upset in the carbohydrate and fatty acid metabolisms. The point of difference between the lactic acid theory and our own is the nature of the acid concerned. We believe that the hæmolyzing agent is a lower member of the fatty acid series which brings about hæmolysis, not by virtue of its acid properties but by virtue of its inherent hæmolytic quality.

With regard to the reticular endothelial system: the system is important not in hæmolysis but rather in the duration and extent of hæmoglobinuria. I have already said that hæmoglobinuria occurs when the reticulo-endothelial system fails to dispose of the hæmoglobin liberated.

Dr. S. Mukherjee asked how far the physical changes brought about by the chemical alteration in lipoidal was responsible for the hæmolysis.

Answer.—We have not estimated the lipoidal changes separately in the plasma and in the cell and therefore we are not in a position to state what part the physical factors play in hæmolysis. We pointed out the importance of the ratio between cholesterol and lecithin. After all physical factors are dependent upon the chemical alterations.

Dr. Senior White asked how the speaker would explain the prevalence of blackwater fever in certain hyperendemic areas and in certain houses and families on the basis of a chemical alteration in the host. If chemical alteration was the cause of hæmoglobinuria we should expect to find blackwater fever more widely spread. His own experience was that his case was sharply limited to a small area of less than 12 miles extent. Perhaps much depended upon the virulence of the infecting malarial strain. He also asked what strain was used for the experiments as there were now several strains of *P. knowlesi*.

Answer.—I have already stated that biological strain was probably concerned, not in the sense of a toxigenic strain but in the sense of its biochemical activity, i.e. its mode of attack of some of the known constituents. The strain used by us was obtained through Col. Knowles from Col. Sinton. I am told it is a pure strain.

Dr. Das-Gupta asked whether the lecturer had noted hæmoglobinuria in monkeys showing no parasites.

Answer.—No. But the degree of parasitization varied from 30 to 80% in monkeys.

The meeting closed with a vote of thanks to the chair.

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL
VOLUME IV
1938



PRINTED AT THE BAPTIST MISSION PRESS
PUBLISHED BY THE ROYAL ASIATIC SOCIETY OF BENGAL

CALCUTTA
1940

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME IV

1938

Year-Book, Royal Asiatic Society of Bengal, 1937

CONTENTS

	<i>Page</i>
1. Proceedings, Annual Meeting, 1938	5
Annual Address, 1937-38	9
Officers and Members of Council, 1938	10
Exhibition, Annual Meeting	11
Annual Report, 1937	16
Membership Statistics, 1908-1937	33
List of Publications, 1937	34
Abstract Statement of Receipts and Disbursements, 1937	35
Abstract Proceedings Council, 1937	61
2. List of Patrons, Officers, Council Members, etc., 1937	73
Patrons	74
Officers and Members of Council, 1937	75
Officers and Members of Council, 1938	76
Ordinary Members, alphabetically	77
Ordinary Members, chronologically	94
Life Members, chronologically	99
Special Anniversary Honorary Members	100
Associate Members	100
Institutional Members	101
Ordinary Fellows	101
Honorary Fellows	102
Changes in Membership	104
Loss of Members, 1937	104
Elliott Gold Medal, recipients	106
Barclay Memorial Medal, recipients	106
Sir William Jones Memorial Medal, recipients	107
Annandale Memorial Medal, recipients	107
Joy Gobind Law Memorial Medal, recipients	107
Paul Johannes Brühl Memorial Medal, recipients	107
Indian Science Congress Medal, Calcutta, recipient	107
3. Proceedings, Ordinary Monthly Meetings, 1937	109
Obituary Notices	131
4. Proceedings, Medical Section Meetings, 1937	137

PROCEEDINGS OF THE ANNUAL MEETING, 1938.

FEBRUARY.

The Annual Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th February, 1938, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Acting President, in the Chair.

Members.

Ahmad, Mr. Shams-uddin	Hobbs, Mr. H.
Bagchi, Rai Bahadur K. N.	Hora, Dr. S. L.
Bhose, Mr. Jotish Chandra	Jack, Hon. Mr. Justice R. E., Kt.
Biswas, Dr. K. P.	Jenkins, Dr. W. A.
Brahmachari, Dr. P. N.	Kavyatirtha, Pt. R. D.
Brahmachari, Rai Bahadur S. C.	Lal, Dr. R. B.
Brown, Mr. Percy	Mahindra, Mr. K. C.
Chakladar, Mr. H. C.	Manen, Mr. Johan van
Chakravarty, Mr. C.	Mitter, Mr. S. C.
Chatterji, Dr. S. K.	Monkerjee, Mr. B. G.
Chopra, Bt.-Col. R. N.	Mukherjee, Dr. J. N.
Datta, Mr. H. N.	Mukherjee, Rai Bahadur Pannalal
Deb, Raja K., Rai Mahasari	Olpadvala, Mr. E. S.
Dugin, Mr. L. S.	Pasricha, Major C. L.
Dutt, Mr. M. N.	Prashad, Dr. Bainsi
Ezra, Sir David	Rahman, Mr. S. K.
Fernor, Sir L. L.	Ray, Dr. H. C.
Gangoly, Mr. O. C.	Sahni, Dr. M. R.
Ghatak, Mr. J. C.	Sen, Mr. D. N.
Ghosal, Dr. U. N.	Singh Roy, Mr. S.
Ghose, Mr. Sushil Chandra	Sircar, Mr. Ganapati
Ghosh, Dr. J.	Thomas, Dr. F. W.
Guha, Dr. B. S.	Wadia, Mr. D. N.
Heron, Dr. A. M.	West, Mr. W. D.

and others.

Visitors :

Bannerjee, Mr. G. N.	Crump, Mr. Basil
Banerjee, Mr. M. C.	Cullen, Mr. A. B.
Bhaumik, Mr. H. P.	Didot, Mons. M.
Biswas, Mrs. K. P.	Didot, Mme.
Biswas, Mr. P.	Dubois, Mons. P.
Bose, Mr. C. K.	During, Herr Helgo von
Bose, Dr. S. R.	Ellis, Mr. Norman A.
Chakravarti, Mr. P. K.	Ghose, Mr. Ajit
Chaudhuri, Mr. B.	Hafiz, Mr. H. A.
Chaudhuri, Dr. J. B.	Ishaque, Mr. Mohd.
Cleather, Mr. G. Gordon	Knight, Mr. P.

Visitors :

Lethbridge, Mr.
Lethbridge, Mrs.
Mookerjee, Mr. N. K.
Mookerjee, Mr. R. R.
Osman, Mr. Md.

Parker, Mr. M.
Ray, Raja P. N., of Dighapatiya.
Sarkar, Mr. S. S.
Sen, Major J. L.
Sinha, Mr. Ramkamal
and many others.

The Acting President for 1937 declared the Annual Meeting open and said—

‘LADIES AND GENTLEMEN,

Voting papers for the election of new Council for 1938 will be distributed to all the Ordinary Members present.

I request the Ordinary Members present to deliver their votes in the collection box which will be sent round to them.’

After the distribution of voting papers the Acting President appointed Messrs. H. Hobbs and L. S. Dugin to act as scrutineers.

The General Secretary then presented the Annual Report for 1937. (See page 16.)

After the presentation of the Annual Report the Acting President delivered his Annual Address. (See page 9.)

The President called upon the scrutineers to report and the Acting President thereupon announced the results of the Council election with these words:—

‘LADIES AND GENTLEMEN,

I now announce the result of the Council election. On the report of scrutineers, I have the pleasure to declare that all the candidates set forth in the Ballot paper for the next year have been duly elected.’ (See page 10.)

The Acting President for 1937 then vacated the Chair to the President for 1938 with these words:—

‘In now giving place to the newly elected President, Sir David Ezra, I give him on your behalf a most hearty welcome to the Presidential Chair. Sir David has during his membership taken a most active interest in our Society and has been for many years a valued member of Council. In him we welcome a past Sheriff of Calcutta as our President and also an ardent student of Zoology. His very long and fruitful association with the Calcutta Zoological Gardens in Alipore is well known and his own private Zoological Garden on a smaller scale is contiguous to this Society. As a man of business he will be able to assist the Society with its practical problems, as a Zoologist he will know to appreciate its scholarly interests and as a personality he will have the affection and support of all of us.’

The President for 1938 then took the chair and briefly thanked the Society for his election, as follows:—

‘SIR UPENDRA NATH, LADIES AND GENTLEMEN,

I thank our Chairman for the generous and friendly words he addressed to me and the Society for the honour it has bestowed on me by its election. I will only add that it will be my ambition to maintain the high traditions of our venerable Society and to discharge my duties to the best of my abilities, with full confidence that I can rely upon the support and good will of you all.

Once more my very best thanks.’

The President for 1938 made the following announcements:—

‘I have to announce that there were no vacancies on the list of our Ordinary Fellows last year and so no elections were held this year.

I have now to announce that papers from two candidates have been received in competition for the Elliot Prize for Scientific Research for the year 1937 which was for Chemistry and the Trustees have judged the papers of one candidate deserving of the award.

The Prize for the year is accordingly awarded to Dr. Pulin Behari Sarkar, Professor of Chemistry of the Vidyasagar College, Calcutta, for meritorious contributions to the subject of Chemistry.

The prize for 1938 will be for Physics, regarding which a detailed announcement has been published in the *Calcutta, Bihar, and Orissa Gazettes*.

My next announcement regards the Sir William Jones memorial medal. This medal is awarded triennially for conspicuously important Asiatic Researches with reference alternately to (1) Science, including Medicine and (2) Philosophy, Literature and History. This year the medal is for Philosophy, Literature and History, and is awarded to:

Prof. Dr. A. J. Wensinck of Leyden, Holland.

My next announcement regards the Barclay Memorial Medal. This medal is awarded biennially for conspicuously important contributions to Medical and Biological Science with special reference to India.

This year the medal is awarded to:

Bt.-Col. R. N. Chopra, Director, School of Tropical Medicine, Calcutta, for his long sustained and distinguished labours in the field of Medical Research.

My next announcement regards the Indian Science Congress (Calcutta) medal. This medal is awarded in such years as the session of the Congress is held in Calcutta and to a person who, in the opinion of the Council, has rendered conspicuously important services to the Indian Science Congress, or on a member of

the Indian Science Congress Association, who in the opinion of the Council, has made important contributions to Science.

This year the medal is awarded to:

Sir James H. Jeans, President of the Indian Science Congress Association, and ex-President of the British Association, for his important contributions to Science.

My last announcement regards the Brühl Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the knowledge of Asiatic Botany.

It has been decided that no award shall be made this year.'

After these announcements, the President for 1938 declared the Annual Meeting dissolved and invited the guests to examine the exhibits at the other end of the hall and the members present to continue in Ordinary Monthly Meeting of the Society for the election of members and the transaction of business. (For a detailed description of the exhibits, see page 11.)

ANNUAL ADDRESS, 1937-38.

'LADIES AND GENTLEMEN,

It is usual that the programme of the Annual Meeting includes the delivery of an Annual Address. It is, however, no statutory prescription that such an address should be delivered and consequently its length is also not prescribed. The greatest latitude has been observed by the successive speakers in our Annual Meetings and recorded speeches vary from 8 to 80 printed pages. For various reasons I will set up this evening a record for brevity. Not only it has fallen to my lot to deliver three such addresses in recent years but today for a second time I find myself in the Chair as Acting President through the absence of the President, Sir John Anderson. My modesty makes me think that you may perhaps wish to forego infliction of a fourth full size address from me this evening. Secondly, even if these reasons were not valid I plead the circumstance of illness, having been indisposed for the last two weeks which makes me fear that my strength would not be sufficient to perform a set oration with the required energy. It would however not be fitting if I did not here make reference to our great respect for our absent President and did not place on record our very warm appreciation for the great interest he has shown in the work of our Society and the valuable guidance he has given it during his term of Presidentship. My Annual Address will therefore consist of these few remarks and of an expression of the hope that a long period of useful service and activity may lie before us and that future years may prove the Society to remain a worthy custodian of its venerable traditions and past history. With these few words I will now proceed to the next item of our programme.'

U. N. BRAHMACHARI.

The 7th February, 1938.

OFFICERS AND MEMBERS OF COUNCIL.

ROYAL ASIATIC SOCIETY OF BENGAL, 1938.

*Elected and announced in the Annual Meeting,
7th February, 1938.*

President

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Vice-Presidents

A. M. Heron, Esq., D.Sc., F.G.S., F.R.G.S., F.R.S.E.,
F.R.A.S.B.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S., F.R.A.S.B.

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

Secretaries and Treasurers

General Secretary:—Johan van Manen, Esq., C.I.E., F.R.A.S.B.

Treasurer:—Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit.,
F.R.A.S.B.

Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi M.
Hidayat Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.

Natural History Secretaries { Biology:—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.R.A.S.B.
Physical Science:—J. N. Mukherjee, Esq.,
D.Sc., F.C.S., F.R.A.S.B.

Anthropological Secretary:—B. S. Guha, Esq., M.A., Ph.D.

Medical Secretary:—Rai Sir Upendra Nath Brahmachari
Bahadur, Kt., M.A., M.D., Ph.D., F.R.A.S.B.

Library Secretary:—M. Mahfuz-ul-Haq, Esq., M.A.

Other Members of Council

N. G. Majumdar, Esq., M.A., F.R.A.S.B.

K. C. Mahindra, Esq., B.A.

W. D. West, Esq., M.A.

Sir George Campbell, Kt.

Major. C. L. Pasricha, M.A., M.B., B.Ch., M.R.C.S., I.M.S.

Kalipada Biswas, Esq., M.A., D.Sc.

EXHIBITION ANNUAL MEETING.

LIST OF EXHIBITS SHOWN AFTER THE ANNUAL MEETING OF
THE ROYAL ASIATIC SOCIETY OF BENGAL, ON THE
7TH FEBRUARY, 1938.

1. G. N. BANNERJEE.

- (1) Buddhist image with six hands and sakti in arms—size 7" × 5" (Nepal)—gilt over coffer.
- (2) Buddha in meditation in black stone. Size 5" × 3" (Patna City).
- (3) Black stone Buddha (Bodh Gaya). Size 6" × 4½".
- (4) Sand stone image of the body of a man (Khajuraha).
- (5) Buddha—gilt on terra-cotta (Siam).
- (6) Mother of pearl stone (Siam).
- (7) Wooden mask of Gadur—(Bali island).
- (8) One piece ornamental brick (Rajshahi—Bengal).
- (9) A palm leaf book cover (modern)—Orissa.
- (10) Bronze image of 'Kinnari'—Cambodia.

2. KALIPADA BISWAS.

*Some rare plants recently introduced in the Royal Botanic Garden,
Calcutta.*

(1) *Cinchona Ledgeriana* Wedd.

It is the well-known Quinine plant now under cultivation in the Darjeeling District. The Quinine manufactured in the Quinine Factory at Mungpoo is mainly derived from the bark of this species. The plant has been received by the courtesy of Mr. S. C. Sen, Superintendent, Cinchona Cultivation in Bengal.

(2) *Meconopsis nepalensis* D.C. and *Meconopsis Wallichii* Hook.

These are superb plants resembling small yellow holyhocks. They are common in the damp interior forest of Sikkim, growing amidst a rank and luxurious harvest on the west of Silver-fir forest (*Abies Webbiana*) at an elevation of 9–12,000 ft.

(3) *Salvinia auriculata* Aubet.

This is a pretty water fern recently introduced from Brazil. It has been received by the courtesy of Dr. E. Hanning of Munster by exchange. The plant is doing exceedingly well in Indian climate and we may find this plant in near future in our tanks as a common aquatic weed, but it will not turn out to be such a pest as water-hyacinth.

(4) *Nepenthes Khasiana* Hk.f.

Two rare species native of Garo Hills just received from the interior forests by the courtesy of the Conservator of Forests, Assam.

(5) *Senecio verticillatus* Klatt.

A peculiar Peruvian species of the family of Compositæ received from the Curator, Ootacamund Garden.

(6) *Cotyledon gibbiflora* Moc. and Sessc.

A handsome succulent plant of tropical America (Mexico) introduced in India some years ago. It thrives well in the subtemperate hill ranges flowering in cold season. Received from the Curator, Ootacamund Garden.

(7) *Cypripedium Venustum* Wall.

An orchid from the Eastern Himalayas and Sikkim made to flower in the plains.

(8) *Echinocactus*.

A rare Cactus cultivated for years at the Garden—originally received from Germany.

(9) *Rhipsalis Cassytha* Gaertn. (Naked Rhipsalis).

It is of the family of Cactæ. The plant is raised from seeds received from Germany by exchange. The plant resembles 'Mistletoe', and is a native of Tropical America.

(10) *Adiantum Tenerum* S.W. var. *Farleyense*.

A West Indian species, successfully grown in the hot houses of the Garden for years.

(11) *Adiantum* sp.

A Garden hybrid.

3. PERCY BROWN.

Pages from an old sketch book.

Belonging to a Tibetan Artist. With Diagrams in red showing the conventional methods by which he designed the tutelary deities and C. in his Tongas (Banners).

4. CHINTAHARAN CHAKRAVARTI.

*A number of interesting Manuscripts.*I. *Manuscripts of Sanskrit works on the Persian language composed at the instance of Muhammadan rulers.*

(1) *Pārasīprakāśa* (R.A.S.B.—No. 496)—A lexicographical work dealing with Sanskrit and Persian words composed by Kṛṣṇadāsa at the instance of Akbar.

(2) *Pārasīprakāśa* (R.A.S.B.—No. 9005)—Another copy of the previous work.

(3) *Pārasīprakāśa* (R.A.S.B.—No. 8287)—A grammar of the Persian language written in Sanskrit by Kṛṣṇadāsa who wrote under orders of Akbar.

(4) *Pārasīpadaprakāśa* (R.A.S.B.—No. I. E. 47)—A lexicographical work of the type of the one by Kṛṣṇadāsa, by Kavikarṇapūra of Kāmarūpa who wrote under orders of Jehangir.

(5) *Bhāṣāsārasamgraha* (R.A.S.B.—No. I. E. 47)—A work by Kavikarṇapūra containing a brief account of the peculiarities of the Persian language.

(6) *Pārasīprakāśa* (R.A.S.B.—No. 8328)—A lexicographical work, accompanied by the author's own commentary on it, dealing with astronomical terms in Sanskrit and Persian, by Vedāṅgarāya who wrote for the satisfaction of Shah Jahān.

(7) *Pārasīprakāśa* (R.A.S.B.—No. 8229)—The same work accompanied by the *Pārasīprakāśavinoda*, presumably a commentary by Vrajabhūṣana which generally agrees with the commentary in the previous MS.

(8) *Pārasīprakāśa* (R.A.S.B.—No. 8230)—The same work accompanied by an anonymous commentary which generally agrees with the commentary in the previous MSS.

(For details about these and similar works cf. *Abhang. König. Akad. Wissen. Berlin*, 1887, 1888; *Journ. As. Soc. Beng.*, 1928, p. 463ff.; *Sahitya Parisat Patrika*, Vol. XLIV, pp. 39ff.)

II. Manuscripts copied by and for ladies.

(1) *Saundaryalahari* of Śaṅkarācārya (R.A.S.B.—No. 9383)—Copied for the recitation of Jayanti Devī.

(2) *Premavilāsa* of Nityānanda Dāsa (Vaṅgiya Sāhitya Pariṣat—No. 262)—Copied by Dhavjāmaṇi Paṭṭamahādevī (wife of Gopālasimhadeva, Rājā of Viṣṇupur, Bankura).

(3) *Annadāmaṅgala* of Bhāratacandra (Vaṅgiya Sāhitya Pariṣat—No. 2633)—Believed to have been copied by Muktakeśi Vasujāyā, wife of Viracandra Vasu, a distant uncle of Raja Rajendralala Mitra.

(4) *Rāmāyana* of Kṛttivāsa (Laṅkākāṇḍa) (Vaṅgiya Sāhitya Pariṣat—No. 136)—Copied for Mahārāṇī Anandakumārī at the house of her father Gopālacandra.

(5) *Rāmāyana* of Kṛttivāsa (Uttarākāṇḍa) (Vaṅgiya Sāhitya Pariṣat—No. 137)—Copied for the reading of Mahārāṇī Anandakumārī at the house of her father Gopālacandra.

III. Manuscript of a commentary on a Smṛti work attributed to a lady.

(1) *Kālamādhavalakṣmī* (R.A.S.B.—Nos. 8852-3)—Different parts of the same MS. of a commentary on the *Kālamirṇaya* of Mādhava attributed to Lakṣmī, wife of Vaidyanātha Pāyagunḍo, whose name is associated with another well-known commentary called the *Bālam-bhaṭṭi* on the *Mitākṣarā*.

5. O. C. GANGOLY.

Two Original Moghul Portraits.

- (1) Portrait of Aurangzib.
- (2) Portrait of Shāh Jahān as Prince Khurram.

6. GEOLOGICAL SURVEY OF INDIA.

I. Serial drawings illustrating the progressive evolution of :

(1) The Elephant :

Moeritherium, Middle Eocene elephant.
Palæomastodon, Upper Eocene ,,
Trilophodon, Miocene ,,
Tetralophodon, Lower Pliocene ,,
Synconolophus, Middle ,,
Stegodon, Upper ,,
 Modern Indian elephant.

(2) *The Horse :*

Eohippus, Lower Eocene horse.
Orohippus, Middle „ „
Merychippus „ Miocene „
Pliohippus, Pliocene „
Equus scotti, Pleistocene „
 Modern horse.

II. *Familiar animals in the fossil state.*

(1) Ox, (2) Horse, (3) Pig, (4) Turtle, (5) Crocodile, (6) Frog.

III. *Fossil and other evidence of physical conditions in past geological times.*

(1) Glaciated boulder, striated by moving ice, found in Korea State, Central Provinces, indicating cold climatic conditions.

(2) Dreikanter found near Rohri, Sukkur, showing arid desert conditions.

(3) *Weichselia reticulata*, probably a xerophytic fern (characteristic of dry conditions) from Ahmednagar (Himatnagar), indicating desert conditions in that region during Cretaceous times.

(4) Fossil palm from Birbhum District, indicating tropical climate in the Tertiary times.

(5) *Bullinus*, a gastropod, that lived like its modern representatives in fresh water, when the Deccan lavas were being poured out. (From the Central Provinces).

(6) Fossil coral, from the Himalayas, indicating marine conditions in that region during the Devonian period.

(7) Varied clay, showing climatic changes reflected in the sedimentation. Talchir beds, North Karanpura Coalfield.

7. STELLA KRAMRISCH.

Shadowplay.

Two figures (1) Rāma (2) Lakṣmaṇa used in shadowplays (Rāmāyaṇa) performed in Cheruthuruthi, Cochin State, S.I. The figures are made of deer skin.

8. ZOOLOGICAL SURVEY OF INDIA.

I. *A new Exhibit in the Invertebrate Gallery of the Indian Museum.*

This is a model of a group of Sea-anemones of the species, *Cerianthus membranaceus*, and its varieties in their natural habitat. They are soft-bodied solitary animals living in a tough leathery tube buried in sand or mud, frequently amongst rocks. A large portion of the body is usually lodged inside the tube leaving the oral disc with its tentacles outside.

The large specimen in the centre of the group is active and is in the act of entangling among its tentacles a small crustacean prior to passing it on to the oral aperture.

The large specimen at the bottom of the group is embedded in sand and is in a quiescent state. The small individual at the top is a young sea-anemone of the same species attached to the rock by means of a battery of nematocysts or stinging capsules. The small one at the bottom is a later stage when a tube has been formed by the anemone in sand. The small green anemone on the left is a colour variety of the same species.

This species is noted for its longevity. A specimen in the aquarium at Naples has lived for over fifty years.

II. Two new Exhibits in the Fish Gallery of the Indian Museum.

(1) *Air-breathing Fishes of India, with special organs for aerial respiration.*

Models of dissected specimens of **Koi** (*Anabas testudineus*), **Lata** (*Ophicephalus punctatus*), **Sauli** (*Ophicephalus striatus*), **Magur** (*Clarias batrachus*), **Singi** (*Heteropneustes fossilis*) and **Kuchi** (*Amphipnous cuchia*), showing organs of aerial respiration, are exhibited. In the accompanying label, in English and Bengali, a brief description of these organs is given and the ecological conditions responsible for aerial respiration in fishes are briefly indicated.

(2) *A piece of planking and copper sheathing, from the bottom of the Barque Adele, pierced by the sword of a Sword-fish.*

On the label accompanying the specimen a brief description of the exhibit, both in English and Bengali, is given. The specimen was originally presented to the Society in 1833, and later transferred to the Indian Museum.

A complete specimen and one skull of Sword-fish are also exhibited to show the nature of the bony sword.

III. *Amphipsyche indica* Martynov (Trichoptera).

The exhibit is a portion of the mat of larval and pupal cases of the Caddis-fly *Amphipsyche indica* Mart. (Fam: Hydropsychidæ) and was collected from the sides of the outlet channel of the final settling tank in the Pulta Water Works. The cases are attached side by side in the form of a honeycomb in two to three tiers.

The anterior ends of the dead larvæ can be seen protruding through the openings of their cases. The cases of the pupæ are closed by disc-like plates with a number of minute slits in the middle for purposes of respiration.

A larva and a pupa removed from the cases together with adult Caddis-flies of both sexes are also exhibited.

9. THE GENERAL SECRETARY.

(1) *The Society's Publications of 1937.*

(a) Journal.

(b) Proceedings, Indian Science Congress.

(2) *Some recent publications by Members of the Society.*

(a) O. C. Gangoly : Love-Poems in Hindi. Calcutta, 1936.

(b) Sarat Chandra Roy : The Khariyas. 2 vols., Ranchi, 1937.

(c) Sir J. C. Coyajee : Cults and Legends of Ancient Iran and China. Bombay, 1936.

(d) S. M. Jaffar : The Mughal Empire from Babar to Aurangzeb. Peshawar, 1936.

(e) Raghubir Singh : Malwa in Transition. Bombay, 1936.

(f) Sir J. G. Frazer : Aftermath. London, 1936.

(g) C. Snouck Hurgronje : Mekka. Leyden, 1931.

ANNUAL REPORT FOR 1937.

The Council of the Royal Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1937.

1. Ordinary Members.

Gains and losses.—These were as follows during the year :—

<i>Gains.</i>		<i>Losses.</i>	
Elections carried forward	.. 13	Elections carried over	.. 4
New elections	.. 20	Elections lapsed	.. 6
Rule 39	.. 1	Deaths	.. 6
		Resignations	.. 17
		Rule 38	.. 8
TOTAL	.. 34	TOTAL	.. 41

Initial total 415 ; net loss 7 ; final total 408.

Rule 38.—This Rule, dealing with members whose subscriptions are in arrears, was strictly applied and names of 8 Members were consequently removed from the roll for this cause.

Membership List.—The customary detailed cross-check of the membership list with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 99, leaving more than ever room for substantial expansion.

Life-members.—The total of our life-members has remained the same, namely 55. None was lost by death ; and no Member compounded during the year.

Deaths.—This year the loss to the Society by death has been the same as that of the year before. Amongst the distinguished and especially valued members lost to us, for whose departure the Society is the poorer, and whose memory will be cherished, the following may be mentioned :—

Sir J. C. Bose (Ordinary Member, 1895 and Ordinary Fellow, 1912).

Hon'ble Mr. B. K. Basu (Ordinary Member, 1929).

Sir W. L. Travers (Ordinary Member, 1929).

2. Associate Members.

During the year all those Associate Members due for re-election (Rule 20) were re-elected for a further period of five

years. No new Associate Members were elected, and none amongst those on the roll was lost.

The present number stands at 5 ; statutory maximum 15.

3. Special Anniversary Honorary Members.

During the year the Society received to its great regret news of the death of one of the Special Anniversary Honorary Members elected on the occasion of its 150th Anniversary :—

Baron Ernest Rutherford of Nelson (1934).

The present number stands at 10.

4. Institutional Members.

During the year the following new institutions were admitted to this class of membership :—

The University of Dacca, Dacca.

The University of Agra, Agra.

The total number is 12.

5. Ordinary Fellows.

At the Annual Meeting held on the 15th February, 1937, the following Members were elected Ordinary Fellows :—

Dr. K. N. Bahl.

Rao Bahadur K. N. Dikshit.

Dr. N. N. Law.

Dr. J. N. Mukherjee.

We lost through death the following Ordinary Fellow :—

Sir J. C. Bose (1912).

At the end of 1937 the number of Ordinary Fellows was 49 ; statutory maximum 50.

6. Honorary Fellows.

During the year there were no new elections. Two Honorary Fellows were lost by death :—

Mahāmahopādhyāya Kāmākhyānātha Tarka-vāgīśa (1911).

Dr. H. Jacobi (1930).

The number at the end of the year stands at 19 ; statutory maximum 30.

7. Obituary.

During the year the Society received to its great regret news of the death of the following :—

Dewan Bahadur L. K. Anantha Krishna Iyer (An Associate Member, from 1910 to 1928).

8. Condolences.

The Council expressed condolences to the relatives of the following deceased during the year :—

MM. Kamakhyanath Tarkavagisa, an Honorary Fellow, since 1911.

Dr. Hermann Jacobi, an Honorary Fellow, since 1930.

Baron Ernest Rutherford of Nelson, a Special Anniversary Honorary Member, since 1934.

Sir J. C. Bose, an Ordinary Member, since 1895 and an Ordinary Fellow of the Society, since 1912.

9. Council.

The Council met 12 times during the year. The attendance averaged 12 of the 20 component members.

The following resolutions of thanks were passed by the Council :—

To the President, H.E. Sir John Anderson, for his acceptance of an invitation to a farewell-tea by Council on the 16th November, 1937.

To Rai Bahadur Ramaprasad Chanda for the valuable services rendered by him as Anthropological Secretary.

To the retiring Members of Council for the services rendered by them to the Society during the period of their Council Membership.

10. Office Bearers.

The changes in the Council during the year were as follows :—

Sir U. N. Brahmachari, Acting President, *vice* H.E. Sir John Anderson, absent, from 15-4-37 to 21-7-37 and from 15-11-37 to end of the year.

Dr. B. S. Guha, Anthropological Secretary, *vice* Rai Bahadur R. Chanda, resigned on 6-12-37.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora, absent from 1-1-37 to 15-1-37; from 29-6-37 to 6-7-37 and from 8-11-37 to 29-11-37.

Absentees other than those mentioned above were :—

Mr. W. D. West, absent from 1-3-37 to 20-4-37.

Mr. Percy Brown, absent from 25-3-37 to 31-10-37.

Lt.-Col. N. Barwell, absent from 15-3-37 to 15-4-37.

Brevet-Col. R. N. Chopra, absent from 15-4-37 to 25-8-37.

Dr. A. M. Heron, absent from 11-4-37 to 26-7-37.

Mr. C. C. Calder, absent from 1-11-37 to end of the year.

11. Committees of Council.

The Standing Committees of the Council for the year, namely, the Finance, Publication, and Library Committees, met every month.

12. Finance Committee.

The Finance Committee continued during the year to meet on dates different from, and a few days prior to, those of the Council Meetings.

13. Office.

Staff.—Changes in the office staff were as follows :—K. Krishnan, Stenographer, left towards the middle of the year and was replaced by A. Michael who was in charge of the despatching work. T. V. V. Nathan who was engaged on probation as general assistant since 1934, was confirmed in the post of despatcher.

Correspondence.—This year the number of outgoing letters was 1,067 and that of incoming letters 3,438.

Files.—During the year little progress only was made with regard to the files, old and new.

Stock-room.—Labelling, bundling, and registration of the contents of the stock-room were kept up-to-date during the year for new publications. The stock-books for new accessions and for sales were kept up.

Distribution.—No change was made in the mode of distribution of our periodicals and notices. A better system for the distribution of free copies of the *Bibliotheca Indica* has to be devised.

Addresses.—Printed address labels remained in use and the system of constant revision and addition which has been maintained enables us to keep the printed addresses up-to-date, month by month.

Card Register.—The card registers of the Society's membership and of that of the Indian Science Congress were kept up-to-date and checked at the close of the year.

Circulars and Forms.—The number of these printed during the year was 61. About Rs.403 were spent under this head.

14. Rules and Regulations.

During the year no changes were made in the Rules and Regulations of the Society.

15. Indian Science Congress.

Twenty-fourth Session.—The Twenty-fourth Annual Meeting of the Indian Science Congress was held in Hyderabad, Deccan, from January 2nd to January 8th, 1937, under the patronage of His Exalted Highness Rustom-i-Dowran, Arastu-i-Zaman, Lt.-General Muzaffarul-Mulk Wal-Mamalik, Nawab Sir Mir

Osman Ali Khan Bahadur, Fateh Jung, Sipah Salar, Faithful Ally of the British Government, Nizam-ud-Daula, Nizam-ul-Mulk Asaf Jah, G.C.S.I., G.B.E., Sultan-ul-Ulum, Nizam of Hyderabad and Berar.

President.—Rao Bahadur T. S. Venkatraman, B.A., I.A.S., F.N.I., was President of the Congress.

Proceedings.—The Proceedings of the Congress were published during the last week of October. The publication contained 656 pages and 3 plates which was 18 pages less than the year before. The number of abstracts sent in for reading at the Congress numbered this year 729 as against 570 last year.

Administration.—During the latter months of the year the usual administrative work for the Congress in connection with the Silver Jubilee Session (Twenty-fifth Congress), jointly with the British Association for the Advancement of Science, to be held in Calcutta, was performed by the Society's office, which also attended to the general administration of the Congress when this was not in session. This year, on account of the special nature of the meeting, the burden of work thrown on the Society's office was unusually heavy.

Programme and Abstracts.—As in the previous years the programme of the meeting and the abstracts were sent, as far as practicable, by post to all members who had applied for membership before the date of their publication. This year this date was the 9th of December.

Finance.—The Congress finances remained separate from those of the Society.

Secretaries.—The General Secretaries to the Congress were Dr. J. N. Mukherjee and Mr. W. D. West; and the Managing Secretary was Mr. Johan van Manen in his capacity of General Secretary to the Society.

16. Indian Museum.

The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt., who was re-appointed as such for a further period of three years in 1936.

17. Kamala Lectureship.

The Society's nominee to serve on the Election Committee of the Kamala Lectureship, administered by the Calcutta University, remained the same, Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

18. National Institute of Sciences of India.

The Society's representatives to serve on the Council of the National Institute of Sciences of India were Rai Sir Upendra Nath Brahmachari Bahadur, Kt., and Mr. C. C. Calder, the former as a Vice-President and the latter as a member of Council.

19. Deputations.

The Society received invitation to send a representative to the various functions of the Ninth Session of the All-India Oriental Conference which was held at Trivandrum. The Council invited Dr. S. K. Chatterji to represent the Society.

20. Honours.

Certain members of the Society received Honours during the year, namely:—His Majesty the King Emperor was graciously pleased to confer the Insignia of a Knight of Grace of the Order of St. John of Jerusalem on H.E. Sir John Anderson, President of the Society. The Hon'ble Mr. Justice R. E. Jack, Mr. A. K. Roy and Mr. Harold Couchman received the honour of Knighthood, while Mr. J. M. Bottomley and Mr. Hiranya Kumar Mitter were admitted to the Companionship of the Order of the Indian Empire.

Her Majesty the Queen of Holland was graciously pleased to confer on Mr. Johan van Manen the rank of Officer of the Order of Orange-Nassau.

21. Congratulations.

The Society conveyed its congratulations to the following :—

To Dr. S. L. Hora for being the recipient of the title of Rai Bahadur.
To Bt.-Col. R. N. Chopra on his obtaining a Doctorate from the University of Cambridge.

To Mr. Johan van Manen on his being admitted to the rank of Officer of the Order of Orange-Nassau.

Congratulations were also sent to the above recipients of Civic Honours.

22. Visits.

An appreciable number of distinguished visitors came to the Society during the year, amongst whom were scholars from China, Japan, Nepal, Afghanistan, Holland, Denmark, Germany, Italy, England and South America.

23. Social Functions.

A social function was held in the rooms of the Society on Tuesday, the 16th November, 1937, when the Council was At Home to H.E. Sir John Anderson, President of the Society, on the eve of his departure from this country.

The Society also continued the practice of providing tea to Members and Visitors present at the time of the Ordinary Monthly Meetings.

24. Elliott Prize for Scientific Research.

The annual prize offered for the year 1936 was for research in Mathematics. No paper was received in competition for the prize.

The prize offered for the year 1937 was for Chemistry. An announcement concerning the prize will be made in the Annual Meeting of 1938.

The prize for next year, 1938, will be for research in Physics.

25. Barclay Memorial Medal.

The (biennial) award of the Barclay Memorial Medal for 1937 for important contributions to Medical and Biological Science with special reference to India, will be announced in the Annual Meeting of 1938.

The next award will be announced in the Annual Meeting of 1940.

26. Sir William Jones Memorial Medal.

The (triennial) award of the Sir William Jones Memorial Medal, for 1937, for Asiatic Researches in Philosophy, Literature and History, will be announced in the Annual Meeting of 1938.

27. Annandale Memorial Medal.

The (triennial) award for important contributions to the study of Anthropology in Asia, was announced in the Annual Meeting of 1937. The medal was awarded to Dr. John Henry Hutton, D.Sc., C.I.E., I.C.S., (retd.)

The next award will be announced in the Annual Meeting of 1940.

28. Joy Gobind Law Memorial Medal.

The next (triennial) award of the medal for important contributions to the study of Zoology in Asia will be announced in the Annual Meeting of 1939.

29. Paul Johannes Brühl Memorial Medal.

The (triennial) award for important contributions to the study of Asiatic Botany will be announced in the Annual Meeting in February, 1938.

30. Indian Science Congress Calcutta Medal.

The announcement concerning the next award of the medal in connection with the next (Silver Jubilee) Session of the Congress to be held in Calcutta in January, 1938, will be made in the Annual Meeting of the Society in February, 1938.

31. Pramatha Nath Bose Memorial Medal.

Rules for the award having already been framed and passed, the Council has now to determine the first year of the award.

32. Society's Premises and Property.

A sum of Rs.2,000 was set aside during the year to be credited to the Building Repairs Fund.

During the year some petty repairs to the Society's building were effected.

33. Accommodation.

Urgent matters that require attention are : the provision of a set of small working rooms for various purposes, the shelving of the stock-rooms, the extension of shelving for the Library and new shelving for the twelve thousand manuscripts made over to the Society as a permanent loan by the Government of India.

34. Artistic and Historical Possessions.

No notable accession was made during the year to the artistic and historical possessions of the Society.

35. Presentations, Donations, and Legacies.

Except for the presentations mentioned under the next heading, no presentations were received during the year.

36. Library.

Permanent Library Endowment Fund.—The fund received no further donations during the year. The total invested capital remained (face value) Rs.14,000, in $3\frac{1}{2}$ per cent. Government paper. The accumulated interest will permit the purchase of one additional paper to the face value of Rs.1,000 early next year.

Accessions.—The accessions to the library during the year, exclusive of about 200 periodicals received through exchange or otherwise, numbered 191 volumes, out of which 107 were purchased and 84 were acquired by presentation.

Binding.—During the year 507 units, including books, pamphlets and periodicals, were bound at a cost of Rs.606, against a budget allowance of Rs.600 sanctioned for the purpose.

Purchases.—The allocation for the purchase of books for the year was Rs.2,500, but actually an amount of Rs.1,535 was spent.

Shelving.—Installation of special steel shelving for manuscripts and books in the western section remained to be effected, and provision has also to be made for further steel shelving for the current accessions of periodical literature. Our available shelving space for printed books is also rapidly coming to an end.

Presentations.—The Consul-General for Sweden in Calcutta presented the Society with 20 volumes of 'Archives d'Études Orientales'. The Society also received from the Acting Consul for the Turkish Republic in Calcutta a photographic album showing the development of the Republic of Turkey entitled 'Turkey in Pictures'.

37. Finance.

(1) Appendix III contains the usual statements showing our accounts for 1937. No change has been made in the form of their presentation since the previous year.

(2) One statement, still carried over, is :

Statement No. 17. International Catalogue of Scientific Literature, London.

(3) The other statements are presented as in the previous year.

(4) As usual the Fund Accounts show their invested assets written down to the market values as at the end of the year and Investment Account No. 24 shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown in it.

(5) Statement No. 26 shows the Balance Sheet of the Society and the different funds administered by and through it.

(6) The funds belonging to, or administered by, the Society may be classified as follows :—

(a) General Fund :—

- (i) Permanent Reserve.
- (ii) Working Balance.

(b) Specific Funds belonging to the Society.

(c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1936, was as follows :—

	Face value.	Market value.	Face value.	Market value.
	31st Dec., 1936.	31st Dec., 1936.	31st Dec., 1937.	31st Dec., 1937.
	Rs.	Rs.	Rs.	Rs.
1. General Fund ..	2,78,700	2,91,000	2,95,200	2,91,000
(a) Permanent Reserve	2,53,200	2,65,500	2,54,200	2,50,000
(b) Working Balance	25,500	25,500	41,000	41,000
2. Specific Funds belonging to the Society ..	80,000	80,000	69,200	69,200
3. Funds administered by the Society .	27,600	27,600	45,600	44,800
	3,86,300	3,98,600	4,10,000	4,05,000

(7) During the year a sum of Rs.736 was received through admission fees. Three new Institutional members were admitted. Their registration fees of Rs.150 together with the above amount and a sum of Rs.78-7 brought forward from 1936 under this head aggregating to Rs.964-7 were transferred to the Permanent Reserve in the usual manner by conversion at the market rates as on 31st December, 1937, of 3½% Government paper to the Face Value of Rs.1,000 belonging to the Temporary Reserve of the working balance, and a cash debit of Rs.19-5 is being carried over to the ensuing year for adjustment under this head.

(8) The Government of Bengal maintained the 20% cut in all grants made by them to the Society during the year.

The Society received the following grants from the Bengal Government :—

For	Rs.	Statement.
Journals	1,600	1
O.P. Fund No. 1	6,600	2
O.P. Fund No. 2	2,400	3
Sanskrit MSS. Fund for 1936-37 (for cataloguing)	2,560	4
	13,160	

(9) The Government of Bengal annual grant of Rs.3,200 for the publication of the Catalogue of Sanskrit MSS. acquired by the Society expired during the year. Government sanction is awaited for the renewal of the grant and it is hoped that it may be received early in the new year. The annual grant of Rs.3,600, from the same Government for Research work which also has not yet been realized, it is hoped, will likewise be obtained early in the new year.

(10) The income derived from advertising during the year amounted to Rs.9,600.

(11) The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 22 and 23.

(12) Statement No. 20 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications and contingent charges.

(13) The Government Securities shown in Statement No. 24 are held in safe custody by the Imperial Bank, Park Street Branch. During the year there was a slight depreciation of the securities amounting to Rs.6,449, decreasing to that extent the book assets of the Society.

(14) The budget estimates for 1937 and the actuals for the year were as follows :—

Estimates.			Receipts.	Expenditure.
			Rs.	Rs.
Ordinary .. ..	..	..	52,600	52,600
Extraordinary ..	..	..	1,000	1,000
		TOTAL ..	53,600	53,600
			-----	-----
Actuals.				
Ordinary .. ..	..	..	50,975	45,926
Extraordinary ..	..	..	886	886
		TOTAL ..	51,861	46,812

The ordinary income was about Rs.1,625 less than estimated.

On the expenditure side about Rs.6,674 was spent below the estimate.

(15) The year's working shows an increase in the net balance to the extent of Rs.6,804 as compared with that of last year, after deduction of the depreciation of our investments which amounted to Rs.6,449.

(16) The budget estimates for probable expenditure have as usual been framed to meet demands under various heads based on various activities in all departments of the Society's work.

The receipts have been conservatively estimated.

BUDGET ESTIMATES FOR 1938.

Ordinary Receipts.

	Budget Estimates for 1937.	Actuals for 1937.	Budget Estimates for 1938.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits..	10,000	10,012	10,000
	700	725	700
Advertising	9,600	9,600	9,600
Annual Grant	1,600	1,600	1,600
Donation .. .. .	....	....	....
Miscellaneous	300	241	300
Members' Subscriptions	9,500	9,119	9,000
Publications, Sales and Subscriptions	4,000	3,153	4,000
Proportionate Share of Funds	7,000	7,000	7,000
Indian Science Congress Contribution.. .. .	600	600	600
Rent	9,300	8,925	9,300
Special contribution from working balance for meeting arrears of pub- lication .. .. .	....	....	3,700
TOTAL ..	52,600	50,975	55,800

Ordinary Expenditure.

	Rs.	Rs.	Rs.
Salaries and Allowances	31,500	30,098	31,000
Commission	300	218	300
Stationery	400	429	400
Fan, Light and Telephone.. .. .	800	658	700
Taxes	2,350	2,387	2,400
Postage	1,400	748	1,400
Freight .. .. .	....	....	....
Contingencies	750	657	750
Petty Repairs	50	18	100
Insurance	500	500	500
Menials' Clothing	100	86	200
Office Furniture	200	122	500
Building Repairs	2,000	2,000	2,000
Provident Fund Share	700	651	700
Audit Fee	250	250	250
Books, Library	2,500	1,535	3,000
„ (Special Grant) .. .. .	....	....	....
Binding, Library	600	606	600
Journal and Memoirs	6,000	2,310	10,000
Printing, Circular	1,000	403	1,000
Replacement of fans	1,200	1,750	....
Contribution to I. S. Congress Jubilee Fund .. .. .	....	500	....
TOTAL ..	52,600	45,926	55,800

Extraordinary Receipts.

	Budget Estimates for 1937.	Actuals for 1937.	Budget Estimates for 1938.
	Rs.	Rs.	Rs.
By Admission Fees	650	736	650
.. Compounding Fees	300	....	300
.. Institutional Membership Regis- tration Fees	50	150	50
TOTAL ..	1,000	886	1,000

Extraordinary Expenditure.

To Permanent Reserve	Rs.	Rs.	Rs.
By Admission Fees	650	736	650
.. Compounding Fees	300	....	300
.. Institutional Membership Regis- tration Fees	50	150	50
TOTAL ..	1,000	886	1,000

38. Publications.

Journal.—Of the *Journal*, Volume II for 1936, one number, consisting of 82 pages and 5 plates to close the volume for Science was issued. The volume for Letters will be closed with the issue of Numismatic Supplement No. XLVI early next year. This number consists of 134 pages and 5 plates.

Year-Book.—The *Year-Books* for 1935 and 1936 will be issued during the year.

Indian Science Congress.—The *Proceedings* of the 24th Indian Science Congress Association, consisting of 656 pages and 3 plates, was published during the year. The *Proceedings* for the 25th Indian Science Congress, Part III, Abstracts, consisting of 310 pages, was published towards the close of the year.

39. The Baptist Mission Press.

Under the capable superintendence of Mr. P. Knight the Baptist Mission Press continued to act as our printers and again gave invaluable assistance and maintained closest co-operation.

40. Agencies.

Our European and Indian Agents remained the same throughout the year. An extension of the list for Asiatic countries is desirable.

41. Exchange of Publications.

During the year, the following application for exchanges with the Society's publications was considered by the Council, with the decision as noted against it :—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Revista Degli Studi Orientali, Rome	Journal (Science and Letters) and Memoirs.

42. Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of February, March, August, September and the recess months, October and November. The recorded average attendance was 12 members and 2 visitors. The maximum attendance was in April with 13 members and 8 visitors.

Two meetings of the Medical Section were held during the year.

43. Exhibits.

In the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned :—

M. Mahfuz-ul Haq : A valuable Manuscript of an Urdū Romantic Poem (*Mathnawī*) composed by Sharaf-un-Nisā, a lady of Murshidābād ; and Three valuable Persian Manuscripts of Jāmī's : (i) *Lawā'ih*, (ii) *Sharḥ-i-Rubā'iyyāt*, and (iii) *Lawāmi*, transcribed by Sulṭān 'Alī of Mashhad in 882 A.H. (1477-78 A.D.).

M. Hidayat Hosain : *Kitāb al-I'lān* ; a very rare and original MS. in the Society's collection ; and Arabic biographical works in the Society's Library.

Chintaharan Chakravarti : The Society's collection of MSS. of the *Tantrasāra* in Non-Bengali Scripts ; the Society's collection of MSS. of Sanskrit Works on the Game of Chess ; and Manuscripts of a Tantra Work giving *inter alia* the family history of the royal Patron of the author.

Suniti Kumar Chatterji : Three old Brass Utensils with incised designs.

Johan van Manen : Two recent publications for which manuscripts from the Society's Library have been utilized ; and a glossary and concordance to Firdausi's *Shahnama*.

44. Communications.

Apart from papers submitted both for reading and subsequent publication a number of communications, not intended for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications made during the year the following may be mentioned :—

L. S. Dugin : Possibilities of the Persian Quatrain.

Johan van Manen : A difficult Verse in the *Dhammapadam* ;

.. Bodding's Santal Dictionary.

45. General Lectures.

A General Lecture was held during the year before a fairly large audience of members and invited guests :—

Dr. Hermann Goetz, Kern Institute, Leyden, Holland : The History of Mughal Civilization as reflected in its Art.

46. Philology.

Four papers were read during the year to be published later.

47. Natural History : Biology.

One paper read in the previous year was published during the year.

Five papers were read and also published during the year.

One paper was read during the year to be published later.

48. Natural History : Physical Science.

No paper falling under this heading was read or published by the Society during the year.

49. Anthropology.

Two papers were read during the year to be published later.

50. Medical Section.

During the year two meetings of the Medical Section were held, as detailed below :—

February. Speaker : M. O. T. Iyengar.
Subject : Filariasis in Travancore.

Speaker : K. Banerjee.
Subject : Abnormal behaviour of coliform organism in a case of acute bacillary dysentery.

Speaker : D. Panja.
Subject : Treatment of Tuberculosis Verrucosa cutis by creosote and salicylic acid.

November. Speaker : G. Panja.
Subject : A Pathogenic strain of staphylococcus citreus.

Speaker : R. N. Chaudhuri.
Subject : Exhibition of clinical cases :—

- (a) A case of tubarachnoid hæmorrhage
- (b) A case of spirochætal jaundice.

Speaker : D. N. Roy.
Subject : On some unknown factors in the production of eggs in flies.

51. Bibliotheca Indica.

Indian works continued.—The following works were continued during the year :—

1. Manu-smṛti, with the commentary of Medhātithi, Sanskrit.
2. Vaikhāṇasa-śrauta-sūtra, text, Sanskrit.
3. Saundarānanda-kāvya, text, Sanskrit (Second and revised edition).
4. Ātma-tattva-viveka, text, Sanskrit.
5. Varṇa-ratnākara, text, Old Maithili.

Islamic works continued.—The following three works were continued during the year :—

1. 'Amal-i-Sālih, Persian.
2. Rubā'iyāt of 'Umar-i-Khayyām, Persian.
3. Ā'in-i-Akbarī, English translation.

New Works.—The following new work was sanctioned during the year to be taken up early next year :—

1. Tārīkh Salāṭīn Afāghīnā, Persian.

52. Sanskrit Manuscripts.

During the year the entire copy for Volume VIII, on Tantra, was revised and made press ready. It is expected to be printed off during the coming year ; while the introduction to this volume is under preparation. In the meanwhile the task of revising and arranging of the descriptive slips for Volume IX, on Philosophy, was taken in hand

53. Arabic and Persian Manuscripts, Search and Catalogue.

The work in this department was continued.

Binding.—The binding and repairing of previously and newly acquired MSS. was continued and 36 MS. volumes were bound during the year, making a total of 1,228 MSS. bound and repaired since the end of 1924.

Acquisitions.—During the year fifty-one manuscripts were acquired by purchase at a cost of Rs.180.

Reference books.—The collection of Persian and Arabic MSS. catalogues was again added to and its completion continues an object of attention. A number of biographical works of reference were also purchased during the year.

Catalogue.—The work on the Arabic Catalogue was pursued and up to 530 pages containing the descriptions of 1,055 MS. volumes, were print-ordered during the year. The work during the year was concentrated on the preparation of the index of the Catalogue which, it is hoped, will be completed during the next year. The Catalogue will be printed off during the coming year.

54. Numismatics.

The material for Numismatic Supplement No. XLVI (for 1935-36), consisting of 134 pages and 5 plates, is in the press and the supplement will be issued early next year.

Further material for a special issue, the Silver Jubilee Number of the supplement, is practically ready for printing and will be issued during the next year.

[APPENDIX I.]

Membership Statistics.

(Calculated on December 31st, for 30 years.)

YEAR.	ORDINARY.							EXTRA-ORDINARY.					FELLOWS			
	PAYING.				NON-PAYING.			Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.	Total.	Grand Total Membership.	Honorary.	Ordinary.
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.									
1908 ..	181	193	17	391	38	19	57	448	4	13	..	..	17	465	30	..
1909 ..	183	217	13	413	40	20	60	473	4	14	..	..	18	491	28	..
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	28
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	426	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49
1934 ..	217	112	30	359	26	57	83	442	..	6	7	12	25	467	26	47
1935 ..	206	107	28	341	28	56	84	425	..	5	7	11	23	448	24	44
1936 ..	214	106	24	344	16	55	71	415	..	5	10	11	26	441	21	46
1937 ..	205	99	29	333	20	55	75	408	..	5	12	10	27	435	19	49

[APPENDIX II]

List of Publications issued by the Royal Asiatic Society of Bengal during 1937.

		Price.
(a) Journal and Proceedings (Third Series) :		Rs. As. P.
Vol. II (Science) : No. 2 (11 units)	.. ..	4 2 0
(b) Miscellaneous :		
Proceedings, Twenty-fourth Indian Science Congress	.. ..	16 8 0
Proceedings, Twenty-fifth Indian Science Congress, Part III, Abstracts	.. ..	7 8 0

Abstract Statement
of
Receipts and Disbursements
of the
Royal Asiatic Society of Bengal
for
the Year 1937

STATEMENT No. 1.

1937.

General

Income and Expenditure Account

	Rs.	As.	P.	Rs.	As.	P.
TO ESTABLISHMENT :						
Salaries and Allowances	30,098	7 0			
Commission	217	13 9			
				30,316	4 9	
GENERAL EXPENDITURE :						
Stationery	428	11 6			
Fans and Light	412	2 0			
Telephone	245	6 0			
Taxes	2,387	5 0			
Postage	748	2 0			
Contingencies	657	4 6			
Printing Circulars, etc.	403	0 0			
Audit Fee	250	0 0			
Petty Repairs	17	14 0			
Insurance	500	0 0			
Menials' Clothing	86	2 0			
Furniture	122	0 0			
Replacement, New Fans	1,750	5 0			
				8,008	4 0	
LIBRARY AND COLLECTIONS :						
Books	1,534	8 10			
Binding	605	10 0			
				2,140	2 10	
PUBLICATIONS :						
Journal and Proceedings			2,309	10 6	
CONTRIBUTIONS :						
Provident Fund for 1937	651	6 0			
Indian Science Congress Jubilee Fund	500	0 0			
				1,151	6 0	
TRANSFER TO—						
Building Repair Fund Account			2,000	0 0	
SUNDRY ADJUSTMENTS :						
Bad Debts written-off	948	11 0			
Depreciation, Investments revalued					
on 31-12-37	5,887	5 0			
				6,836	0 0	
BALANCE AS PER BALANCE SHEET			2,91,293	5 0	
				3,44,055	1 1	

STATEMENT No. 1.

Fund.

1937.

for the year to 31st December, 1937.

		Rs.	As.	P.	Rs.	As.	P.
BY BALANCE FROM LAST ACCOUNT			2,90,939	12	8

CASH RECEIPTS :

Interest on Investments	..	..	10,012	0	0		
Interest on Fixed Deposits	..	..	725	0	0		
Advertising	..	..	9,600	0	0		
Miscellaneous	..	..	240	11	3		
Government Grant	..	..	1,600	0	0		
Rent	..	..	8,925	0	0		
Contribution from Indian Science Congress	..	..	600	0	0		
						31,702	11 9

PERSONAL ACCOUNT :

Members' Subscriptions	..	..	10,202	0	0		
Admission Fees	..	..	736	0	0		
Institutional Membership Fees	..	..	200	0	0		
						11,138	0 0

TRANSFER FROM FUNDS :

Proportionate Share in General Expenditure--

Oriental Pub. Fund (1) Account	..	..	2,500	0	0		
Sanskrit MSS. Fund Account	..	..	2,000	0	0		
Arabic and Persian MSS. Fund Account	..	..	2,500	0	0		
						7,000	0 0
PUBLICATION FUND ACCOUNT	..	..				3,274	8 8

STATEMENT No. 2.

1937.

Oriental Publication

From a monthly grant made by the Government of Bengal for the publication of Sanskrit (Rs. 500), and for the publication of Sanskrit
(Less 20% from the

	Rs.	As.	P.
To Printing	16	0	0
Proportionate Share in General Expenditure ..	2,500	0	0
Balance as per Balance Sheet ..	10,354	1	11
	12,870	1	11

STATEMENT No. 3.

1937.

Oriental Publication

From an annual grant made by the Government of Bengal of Historical
(Less 20% from the

	Rs.	As.	P.
To Balance as per Balance Sheet ..	2,474	9	5
	2,474	9	5

STATEMENT No. 4.

1937.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal by the Society ; and Rs. 3 600 from the
(Less 20% from the

	Rs.	As.	P.	Rs.	As.	P.
To Binding	15	0	0			
Cataloguing	1,200	0	0			
				1,215	0	0
Proportionate Share in General Expenditure .. .. .	....			2,000	0	0
Balance as per Balance Sheet .. .. .	..			17,487	1	3
				20,702	1	3

STATEMENT No. 2.

Fund No. 1, in Account with R.A.S.B.

1937.

cation of Oriental Works and Works of Instruction in Eastern Languages
Works hitherto unpublished (Rs. 250).

1st of April, 1932.)

						Rs.	As.	P.
By Balance from last Account	..	..				6,270	1	11
Annual Grant	..	..	..	..		6,600	0	0
						<u>12,870</u>	<u>1</u>	<u>11</u>

STATEMENT No. 3.

Fund No. 2, in Account with R.A.S.B.

1937.

Rs. 3,000 for the publication of Arabic and Persian Works of
Interest.

1st of April, 1932.)

						Rs.	As.	P.
By Balance from last Account	..	..				74	9	5
Government Grant for 1937-38	..	..				2,400	0	0
						<u>2,474</u>	<u>9</u>	<u>5</u>

STATEMENT 4.

Account, in Account with R.A.S.B.

1937.

for the publication of the Catalogue of Sanskrit Manuscripts acquired
same Government for Research Work.

1st of April, 1932.)

						Rs.	As.	P.
By Balance from last Account	..	....				18,142	1	3
Annual Grant for Cataloguing	.	...				2,560	0	0

STATEMENT No. 5.**1937.*****Arabic and Persian Manuscripts***

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society; for the purchase of further Manuscripts,
Manuscripts found in

		Rs.	As.	P.	Rs.	As.	P.
To Purchase of Manuscripts		180	0	0			
Binding		306	8	0			
Cataloguing		2,400	0	0			
Reference Works		859	0	9			
		<hr/>			3,745	8	9
Proportionate Share in General Expenditure .. ..		....			2,500	0	0
Balance as per Balance Sheet .. ..		....			2,056	2	3
					<hr/>		
					8,301	11	0
					<hr/>		

STATEMENT No. 6.**1937.*****Barclay Memorial***

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

		Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37 .. ..		....			14	14	0
Balance as per Balance Sheet—							
Rs. 700, 3½% G.P. Notes, 1854-55 ..		688	10	0			
Surplus at date		40	11	8			
		<hr/>			729	5	8
					<hr/>		
					744	3	8
					<hr/>		

STATEMENT No. 7.**1937.*****Servants' Pension Fund***

Founded in 1876 as the Piddington Fund

		Rs.	As.	P.	Rs.	As.	P.
To Pension .. ..		....			121	0	0
Depreciation, Investments revalued on 31-12-37 .. ..		....			63	12	0
Balance as per Balance Sheet—							
Rs. 3,000, 3½% G.P. Notes, 1854-55 ..		2,951	4	0			
Surplus at date		919	14	0			
		<hr/>			3,871	2	8
					<hr/>		
					4,055	14	8

STATEMENT No. 5.

Fund Account, in Account with R.A.S.B.

1937.

the cataloguing and binding of Arabic and Persian Manuscripts, acquired and for the preparation of notices of Arabic and Persian various Libraries in India.

			Rs.	As.	P.
By Balance from last Account	..	....	3,301	11	0
Government Grant for 1937-38	..	....	5,000	0	0

8,301 11 0

STATEMENT No. 6.

Fund Account, in Account with R.A.S.B.

1937.

General, I.M.S., for the foundation of a medal for the and Biological Science.

			Rs.	As.	P.
By Balance from last Account	.	....	719	15	8
Interest realized for the year	..	....	24	4	5

714 3 8

STATEMENT No. 7.

Account, in Account with R.A.S.B.

1937.

with Rs. 500 odd from the Piddington Fund.

			Rs.	As.	P.
By Balance from last Account	..	....	3,131	9	4
Interest realized for the year	..	....	104	12	0
Amount transferred from Provident Fund	..	....	819	10	2

4,055 14 8

STATEMENT No. 8.

1937.

Annandale Memorial Fund

From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37				85	0	0
Balance as per Balance Sheet—						
Rs. 4,000, 3½% G.P. Notes, 1854-55	3,935	0	0			
Surplus at date	628	5	9			
				4,563	5	9
				4,648	5	9

STATEMENT No. 9.

1937.

Permanent Library Endowment

From gifts received.

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37				297	8	6
Balance as per Balance Sheet—						
Rs. 14,000, 3½% G.P. Notes, 1854-55	13,772	8	0			
Surplus at date	1,150	7	8			
				14,922	15	8
				15,220	7	8

STATEMENT No. 10.

1937.

Sir William Jones Memorial

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37				63	12	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,951	4	0			
Surplus at date	217	6	0			
				3,168	10	0
				3,232	6	0

STATEMENT No. 8.

Account, in Account with R.A.S.B.

1937.

started in 1926.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			4,509	13	9
Interest realized for the year			138	8	0
				4,648	5	9

STATEMENT No. 9.

Fund Account, in Account with R.A.S.B.

1937.

started in 1926.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account		14,731	7	8
Interest realized for the year		489	0	0
				15,220	7	8

STATEMENT No. 10.

Fund Account, in Account with R.A.S.B.

1937.

1926, by Dr. U. N. Brahmachari.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account		3,127	10	0
Interest realized for the year		104	12	0

3,232 6 0

STATEMENT No. 11.

1937.

Pramathanath Bose Memorial

From a sum gifted for

	Rs. As. P.	Rs. As. P.
To Depreciation, Investments revalued on 31-12-37 .. .. .	....	38 4 0
Balance as per Balance Sheet—		
Rs. 800, 3½% G.P.N., 1842-43 } ..	1,770 12 0	
„ 1,000, „ „ 1865 } ..		
Surplus at date	156 5 0	
	<hr/>	1,927 1 0
		1,965 5 0

STATEMENT No. 12.

1937.

Joy Gobind Law Memorial

From a donation for the purpose

	Rs. As. P.	Rs. As. P.
To Depreciation, Investments revalued on 31-12-37 .. .. .	....	63 12 0
Balance as per Balance Sheet—		
Rs. 3,000, 3½% G.P. Notes, 1854-55 ..	2,951 4 0	
Surplus at date	191 12 0	
	<hr/>	3,143 0 0
		3,206 12 0

STATEMENT No. 13.

1937.

*Building Fund*From a sum of Rs. 40,000 given by the Government of India
proceeds of a portion

	Rs. As. P.
To Balance as per Balance Sheet	6,321 9 6
	<hr/>
	6,321 9 6

STATEMENT No. 11.

Fund Account, in Account with R.A.S.B.

1937.

the purpose in 1935.

		Rs. A. P.	Rs. As. P.
By Balance from last Account	1,912 11 0
Interest realized for the year	52 10 0

1,965 5 0

STATEMENT No. 12.

Fund Account, in Account with R.A.S.B.

1937.

in 1929, by Dr. Satya Churn Law.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,102 0 0
Interest realized for the year	104 12 0

3,206 12 0

STATEMENT No. 13.

Account, in Account with R.A.S.B.

1937.

towards the rebuilding of the Society's premises, and from the sale of the Society's land.

			Rs. As. P.
By Balance from last Account ..	..	..	6,321 9 6
			6,321 9 6

STATEMENT No. 14.

1937.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37 .. ..	....			63	12	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes 1854-55	2,951	4	0			
Surplus at date	873	6	7			
				8,824	10	7
				3,888	6	7

STATEMENT No. 15.

1937.

Dr. Brühl Memorial Fund

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-37 .. ..	....			21	4	0
Balance as per Balance Sheet—						
Rs. 1,000, 3½% G.P. Notes, 1854-55	983	12	0			
Surplus at date	56	12	0			
				1,040	8	0
				1,061	12	0

STATEMENT No. 16.

1937.

Building Repair Fund

	Rs.	As.	P.
To Building Repairs	2,187	12	6
Balance as per Balance Sheet	8,150	1	6
	10,337	14	0

STATEMENT No. 14.*Fund Account, in Account with R.A.S.B.***1937.**

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,783 10 7
Interest realized for the year	104 12 0

3,888 6 7

STATEMENT No. 15.*Account, in Account with R.A.S.B.***1937.**

1929, by the Bruhl Farewell Committee.

		Rs. A. P.	Rs. As. P.
By Balance from last Account	1,027 0 0
Interest realized for the year	34 12 0

1,061 12 0

STATEMENT No. 16.*Account, in Account with R.A.S.B.***1937.**

		Rs. As. P.
By Balance from last Account	..	....
Transfer from R.A S.B. General Fund	....	2,000 0 0

10,337 14 0

STATEMENT No. 17.

1937.

International Catalogue of Scien-

To Balance as per Balance Sheet—

Rs. As. P.

4,374 7 8

4,374 7 8

STATEMENT No. 18.

1937.

Provident Fund Account,

From contributions by the

	Rs.	As.	P.	Rs.	As.	P.
To Payments during the year ..	....			202	4	0
Transfer to Servants' Pension Fund ..				819	10	2
Cost of a stamp ..	....			0	1	0
Balance as per Balance Sheet—						
Rs. 5,000, 3% G.P. Notes, 1941	5,175	0	0			
„ 6,000, 5-year Postal Cash Certificates ..	5,737	8	0			
Savings Bank and Advances ..	7,302	6	1			
				18,214	14	0
				19,236	13	3

STATEMENT No. 19.

1937.

Advances Account,

	Rs.	As.	P.
To Balance from last Account ..	1,550	0	0
Payments during the year ..	900	0	0
	2,450	0	0

STATEMENT No. 17.

tific Literature, in Account with R.A.S.B.

1937.

	Rs.	As.	P.
By Balance from last Account	4,374	7	8
	<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

in Account with R.A.S.B.

1937.

Society and its Staff.

	Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account				17,551	11	0
Interest realized during the year ..	12	5	3			
Staff Contribution for the year ..	651	6	0			
Society's Contribution for the year..	651	6	0			
	<u> </u>			1,315	1	3
Interest realized from Savings Bank, etc.				220	1	0
Appreciation, Investments revalued on 31-12-37				150	0	0
				<u>19,236</u>	<u>13</u>	<u>3</u>

STATEMENT No. 19.

in Account with R.A.S.B.

1937.

	Rs.	As.	P.
By Refunds during the year	1,240	0	0
Balance as per Balance Sheet	1,210	0	0
	<u>2,450</u>	<u>0</u>	<u>0</u>

STATEMENT No. 20.

1937.

Personal

		Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	..		....		3,419	14	9
Advances ..	..		....		2,940	7	6
Asiatic Society's Subscriptions, etc. ..	..	11,138	0	0			
Subscriptions to Journal and Proceedings, and from Book Sales, etc., ..	..	3,274	8	8			
					<hr/>		
					14,412	8	8

20,772 14 11

STATEMENT No. 21.

1937.

Publication Fund Account,

From sale proceeds

		Rs.	As.	P.	Rs.	As.	P.
To Books returned, etc.		24	0	0
Publications of the R.A.S.B.		3,274	8	8
Balance as per Balance Sheet		7,476	0	9

10,774 9 5

STATEMENT No. 20.

Account.

1937.

		Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts during the year	..	....			16,086	2	5
By Bad Debts written-off, R.A.S.B.	..	948	11	0			
Books returned, etc.	..	24	0	0			
		<hr/>			972	11	0
Balance as per Balance Sheet—	..	....			3,714	1	6

Outstandings.	Amount due to the Society.			Amount due by the Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members	3,737	15	0	600	9	0
Subscribers, etc.	32	3	0	48	0	0
Bill Collector's Deposit				300	0	0
Miscellaneous	1,232	11	0	331	2	6
	<hr/>			<hr/>		
	5,002	18	0	1,288	11	6

20,772 14 11

STATEMENT No. 21.

in Account with R.A.S.B.

1937.

of publications.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	....			7,229	5	9
Cash Sale of Publications	..	....			270	11	0
Credit Sale of Publications, etc.	..	1,930	8	8			
Subscriptions to Journal and Proceedings, etc.	..	1,344	0	0			
		<hr/>			3,274	8	8
					10,774	9	5

STATEMENT No. 22.

1937.

(1) Deposit Account (Savings Bank

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			5,238	9	0
Deposits of Interest realized from loans during the year ..	12	5	3			
Deposits of Contributions during the year	1,302	12	0			
Deposits of Advances returned ..	1,240	0	0			
	<hr/>			2,555	1	3
Interest realized for the year 1937 ..	....			220	1	0
				8,013	11	3

STATEMENT No. 23.

1937.

(2) Deposit Account (Fixed Deposit

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account			45,000	0	0
Deposits during the year			30,000	0	0
				75,000	0	0

STATEMENT No. 22.*Deposit with Imperial Bank of India).***1937.**

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal for Staff Advances, etc.			1,921	14	2
Cost of a stamp			0	1	0
Balance as per Balance Sheet			6,091	12	1

8,013 11 3

STATEMENT No. 23.*with Imperial Bank of India).***1937.**

			Rs.	As.	P.
By Withdrawal during the year .. ..	..	..	15,000	0	0
Balance as per Balance Sheet .. ..	..	..	60,000	0	0
		..	75,000	0	0

STATEMENT No. 24.

1937.

(3) Investment

	Rs.	As.	P.
To Balance from last Account	3,31,675	8	0
..	3,31,675	8	0

Face Value Rs.	FUNDS.	Rate @ Rs %	31st December, 1937, Valuation.	31st December, 1936, Valuation.	Depreciation, or *Appreciation
			Rs. A. P.	Rs. A. P.	Rs. A. P.
	ROYAL ASIATIC SOCIETY OF BENGAL.				
	PERMANENT RESERVE.				
16,700	3½% G. P. Notes, 1842-43	...			
1,53,700	3½% G. P. Notes, 1854-55	...			
44,800	3½% G. P. Notes, 1865	...			
6,000	3½% G. P. Notes, 1879	...			
83,000	3½% G. P. Notes, 1900-01	...			
2,53,700		98/6/-	2,49,577	2,54,968	5,391
500	8% G. P. Notes, 1896-97	90/1/-	450	450	50*
	TEMPORARY RESERVE.				
18,000	3½% G. P. Notes, 1900-01	98/6/-	17,707	18,000	892
11,400	4½% Loan, 1955-60	119/8/-	13,628	13,737	114
	BARCLAY MEMORIAL FUND.				
700	3½% G. P. Notes, 1854-55	98/6/-	688	703	14
	SERVANTS' PENSION FUND.				
8,000	3½% G. P. Notes, 1854-55	98/6/-	2,951	3,015	63
	ANNANDALE MEMORIAL FUND.				
4,000	3½% G. P. Notes, 1854-55	98/6/-	3,985	4,020	85
	PERMANENT LIBRARY ENDOWMENT FUND.				
14,000	3½% G. P. Notes, 1854-55	92/6/-	13,772	14,070	297
	SIR WILLIAM JONES MEMORIAL FUND.				
3,000	3½% G. P. Notes, 1854-55	98/6/-	2,951	3,015	63
	PRAMATHANATH BOSE MEMORIAL FUND.				
800	3½% G. P. Notes, 1842-43	...			
1,000	3½% G. P. Notes, 1865	98/6/-	1,770	1,909	88
	JOY GOBIND LAW MEMORIAL FUND.				
3,000	3½% G. P. Notes, 1854-55	98/6/-	2,951	3,015	63
	CALCUTTA SCIENCE CONGRESS PRIZE FUND				
3,000	3½% G. P. Notes, 1854-55	98/6/-	2,951	3,015	63
	DR BRÜHL MEMORIAL FUND.				
1,000	3½% G. P. Notes, 1854-55	98/6/-	983	1,005	21
	PROVIDENT FUND.				
5,000	8% Loan, 1941	133/8/-	5,175	5,250	75
6,000	Post Office 5-year Cash Certificates	95/10/-	5,787	5,512	225
8,23,100			8,25,226	8,31,675	6,449

STATEMENT No. 24.*Account.**1937.*

	Rs. As. P.		
By Depreciation, Investments revalued on 31-12-37..	6,449	3	0
Balance as per Balance Sheet	3,25,226	5	0
	<hr/>		
	3,31,675	8	0

STATEMENT No. 25.

1937.

Cash

For the year ended 31st

To	Ra. As. P.	Ra. As. P.
Balance from last Account	11,705 1 7	
General Fund Account	81,702 11 9	
Oriental Publication Fund No. 1 Account ..	6,600 0 0	
Oriental Publication Fund No. 2 Account ..	2,400 0 0	
Sanskrit Manuscripts Fund Account ..	2,560 0 0	
Arabic and Persian Manuscripts Fund Account	5,000 0 0	
Barclay Memorial Fund Account	24 4 0	
Servants' Pension Fund Account	924 6 2	
Annandale Memorial Fund Account	138 8 0	
Permanent Library Endowment Fund Account	489 0 0	
Sir William Jones Memorial Fund Account	104 12 0	
Pramathanath Bose Memorial Fund Account	52 10 0	
Joy Gobind Law Memorial Fund Account	104 12 0	
Calcutta Science Congress Prize Fund Account	104 12 0	
Dr. Brühl Memorial Fund Account	34 12 0	
Provident Fund Account	1,315 1 3	
Advances Account	1,240 0 0	
Personal Account	16,086 2 5	
Publication Fund Account	270 11 0	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	1,921 14 2	
Fixed Deposit Account, Imperial Bank of India, Calcutta	15,000 0 0	
		86,074 4 9
		97,779 6 4

STATEMENT No. 25.

Account.

1937.

December, 1937.

By	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	43,925	12	1			
Oriental Publication Fund No. 1 Account ..	16	0	0			
Sanskrit Manuscripts Fund Account ..	1,215	0	0			
Arabic and Persian Manuscripts Fund Account	3,745	8	9			
Servants' Pension Fund Account ..	121	0	0			
Building Repair Fund Account ..	2,187	12	6			
Provident Fund Account ..	1,021	14	2			
Advances Account ..	900	0	0			
Personal Account ..	2,940	7	6			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta ..	2,555	1	3			
Fixed Deposit Account, Imperial Bank of India, Calcutta ..	30,000	0	0			
				88,828	8	3
Balance as per Balance Sheet—						
In hand ..	149	15	0			
With the Imperial Bank of India, on Current Account ..	9,000	15	1			
				9,150	14	1

97,779 6 4

STATEMENT No. 26.

1937.

Balance

As at 31st

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund Account ..	2,91,293	5	0			
Oriental Publication Fund No. 1 Account	10,354	1	11			
Oriental Publication Fund No. 2 Account	2,474	9	5			
Sanskrit Manuscripts Fund Account ..	17,487	1	3			
Arabic and Persian Manuscripts Fund Account	2,056	2	3			
Barclay Memorial Fund Account ..	729	5	8			
Servants' Pension Fund Account ..	3,871	2	8			
Annandale Memorial Fund Account ..	4,563	5	9			
Permanent Library Endowment Fund Account	14,922	15	8			
Sir William Jones Memorial Fund Account	3,168	10	0			
Pramathanath Bose Memorial Fund Account	1,927	1	0			
Joy Gobind Law Memorial Fund Account	3,143	0	0			
Building Fund Account ..	6,321	9	6			
Calcutta Science Congress Prize Fund Account	3,824	10	7			
Dr. Brühl Memorial Fund Account ..	1,040	8	0			
Building Repair Fund Account ..	8,150	1	6			
International Catalogue of Scientific Literature, London	4,374	7	8			
Provident Fund Account ..	18,214	14	1			
Publication Fund Account ..	7,476	0	9			
				4,05,393	0	8
				4,05,393	0	8

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and, in our opinion, set forth correctly the position of the Society as at 31st December, 1937.

PRICE, WATERHOUSE, PEAT & Co.,

Calcutta,
January 23rd, 1938.

Auditors,
Chartered Accountants,
Registered Accountants.

STATEMENT No. 26.*Sheet.**1937.*

December, 1937.

ASSETS.

			Rs.	As.	P.	Rs.	As.	P.
Advances Account	..	..	1,210	0	0			
Personal Account	..	..	3,714	1	6			
						4,924	1	6
Deposits :—								
Savings Bank Deposit Account, Imperial Bank of India	..	..	6,091	12	1			
Fixed Deposit Account, Imperial Bank of India	..	..	60,000	0	0			
						66,091	12	1
Investment Account	..	..	....			3,25,226	5	0
Cash Account :—								
In hand	..	..	149	15	0			
With the Imperial Bank of India, on Current Account	..	..	9,000	15	1			
						9,150	14	1

4,05,393 0 8

S L. HORA,
Honorary Treasurer.

[APPENDIX IV.]

Abstract Proceedings Council, 1937.

(Rule 48 f.)

ACCOMMODATION—

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant.

No. 1. 27-9-37.

Request for the use of the Society's Hall by the Mining and Geological Institute of India. Grant.

No. 1. 29-11-37.

ADVERTISING—

Proposal for the erection of a neo-light sign advertisement. That the General Secretary be authorized to conclude negotiations and to execute and sign a lease on behalf of the Society at a minimum rental of Rs.250 per mensem for a period of three years; that the broker receive the amount of the first monthly rental as a commission.

No. 11. 30-3-37.

ANNUAL MEETING—

Annual Meeting. Arrangements approved; notice to be issued under the terms of the Rules, but requesting abstention of members till the 15th of February.

No. 10. 25-1-37.

Annual Report. Accept.

No. 11. 25-1-37.

ASSOCIATE MEMBERS—

Quinquennial re-election Associate Members. Recommend all three Associate Members for re-election.

No. 2. 30-3-37.

AT HOME—

Considered a letter from the Military Secretary to H.E. the Governor of Bengal intimating acceptance by H.E. of the Society's invitation to an 'At Home' in the rooms of the Society and suggesting 6 P.M. on Tuesday, the 16th November, as time and date of the function.

Unanimously approved.

Special Council. 31-8-37.

The Council expressed its thanks to the President, Sir John Anderson, for his acceptance of an invitation to a farewell-tea by the Council on the 16th November, 1937, at 6 P.M.

No. 7. 31-8-37.

BIBLIOTHECA INDICA—

Recommendation Finance Committee No. 6 of 19-2-37.

Typist Gupta's application for additional pay in connection with the Index to the Tabaqat-i-Akbari. Postpone to next meeting. Accepted by Council.

No. 7.

30-3-37.

BUILDING—

Recommendation Finance Committee No. 2 (ii) of 9-12-37.

Society's contribution to the Building Repair Fund Rs.2,000. Pay. Accepted by Council.

No. 6.

13-12-37.

COMMITTEES—

Constitution Standing Committees for 1937-38.

The Standing Committees to be as follows:—

(a) *Finance Committee :*

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	
Dr. Bains Prashad.	
Dr. J. N. Mukherjee.	
Sir U. N. Brahmachari.	
Mr. K. C. Mahindra.	

(b) *Library Committee :*

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	
Sir U. N. Brahmachari.	

(c) *Publication Committee :*

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	
Sir U. N. Brahmachari.	

No. 3.

30-3-37.

CONGRATULATIONS AND THANKS—

Outgoing members of Council. That the Council's thanks be conveyed to the outgoing members not re-elected to the new Council.

No. 12.

25-1-37.

The Council offered its congratulations to Dr. Hora for being the recipient of the title of "Rai Bahadur".

31-5-37.

Congratulations to Bt.-Col. R. N. Chopra. The Council's congratulations to be conveyed to Col. R. N. Chopra at the occasion of his obtaining a Doctorate of the University of Cambridge.

No. 6.

26-7-37.

Report by the General Secretary that H.M. the Queen of the Netherlands had been pleased to admit him to the rank of Officer of the Order of Oranje Nassau. Record with the Council's congratulations.

No. 10.

31-8-37.

Letter from R.B. R. Chanda resigning his seat on the Council as Anthropological Secretary. Accept resignation with regret and with thanks for the valuable services rendered by R.B. R. Chanda. Dr. B. S. Guha to replace R.B. R. Chanda as Anthropological Secretary.

No. 10.

27-9-37.

Letter from H. Dass, London, proposing to present to the Society certain articles and books bequeathed to him by the late Miss E. R. Martin of East Putney, London. Accept with thanks.

No. 13.

29-11-37.

COUNCIL--

Outgoing members of Council. Resolved: That the Council's thanks be conveyed to the outgoing members not re-elected to the new Council.

No. 12.

25-1-37.

Acceptance of seats on the Council by the elected Council Members. Record.

No. 1.

30-3-37.

The question of holding Committee and Council Meetings in October (Poojah Month). No meeting unless the General Secretary desires otherwise.

No. 7.

27-9-37.

Letter from R.B. R. Chanda resigning his seat on the Council as Anthropological Secretary. Accept resignation with regret and with thanks for the valuable services rendered by R.B. R. Chanda. Dr. B. S. Guha to replace R.B. R. Chanda as Anthropological Secretary.

No. 10.

27-9-37.

On a proposal from Sir U. N. Brahmachari, seconded by Mr. Johan van Manen, it was unanimously resolved to propose the name of the President, His Excellency Sir John Anderson, for election as an Honorary Fellow at the next General Meeting of the Royal Asiatic Society of Bengal.

Special Council.

19-11-37.

Fixing date of Committee and Council Meetings (December). Monday the 13th December.

.. No. 10.

29-11-37.

Informal consideration composition of Council, 1938-39.

After discussion the following list of candidates for nomination to next year's Council was placed before the meeting for consideration.

President	..	..	Sir David Ezra.
Vice-President	..	..	Dr. A. M. Heron
"	..	..	Lt.-Col. N. Barwell.
"	..	..	Bt.-Col. R. N. Chopra.
"	..	..	The Hon. Mr. Justice Lort-Williams.
General Secretary	..	..	Mr. Johan van Manen.
Honorary Treasurer	..	..	Mr. Percy Brown.
Philological Secretary	..	..	Dr. S. K. Chatterji.
Jt. Philological Secretary	..	..	Dr. M. Hidayat Hosain.
Nat. Hist. Secretary (Biology)..	..	..	Dr. Bains Prashad.
" " " (Phys. Science)	..	..	Dr. J. N. Mukherjee.
Anthropological Secretary	..	..	Dr. B. S. Guha.
Medical Secretary	..	..	Sir U. N. Brahmachari.
Library Secretary	..	..	Mr. M. Mahfuz-ul Haq.
Member of Council	..	..	Mr. N. G. Majumdar.
"	..	..	Mr. K. C. Mahindra.
"	..	..	Mr. W. D. West.
"	..	..	Sir George Campbell.
"	..	..	Capt. C. L. Pasricha.
"	..	..	Mr. Kalipada Biswas.

Resolved that the General Secretary do print and circulate to the members of the Council the list of the Council as at present constituted together with the new list placed before the meeting, and provided with a blank column for additional names; that these lists be returned to the General Secretary within a week of date of issue; that a list be compiled of the candidates finally proposed and be placed before the next Council meeting to be voted upon.

No. 12.

29-11-37.

Council nomination, 1938-39. The General Secretary reported that 15 Council Members had returned the list of candidates circulated duly signed and unanimously approved without any alternative suggestion. Resolved that the list of names placed before the Council in the November meeting be declared that of the Council's candidates for election to next year's Council and that it be ordered to be issued to the Resident Members as prescribed by Rule 44.

No. 10.

13-12-37.

EXCHANGE OF PUBLICATIONS—

Application for an exchange of publications from the Editor, *Revisita Degli Studi Orientali*, Rome. Accept Journal and Memoirs on Oriental subjects.

No. 12.

26-4-37.

FANS—

Recommendation Finance Committee No. 6 of 21-1-37. Installation New Fans. Only low current consumption fans to be considered. Accepted by Council.

No. 6.

25-1-37.

Recommendation Finance Committee No. 4 of 24-6-37. Fans. The General Secretary reported on advice received by him regarding the renewal of fans. That the General Secretary be authorized to arrange for the renewal of the Society's fans. Accepted by Council.

No. 3.

28-6-37.

Recommendation Finance Committee No. 4 of 26-8-37. The General Secretary reported that the old fans had been disposed of for Rs.120. Approve. Accepted by Council.

No. 3.

31-8-37.

FELLOWS—

Recommendations of the meeting of Resident Fellows on 5-1-37. Accept; put up the names for election in the Annual Meeting.

No. 9.

25-1-37.

FINANCE—

Recommendation Finance Committee No. 2 of 21-1-37. Consideration investment of a sum of Rs.10,000 from the current account of the Society with the Bank. Place Rs.10,000 in fixed deposit for a year with the Imperial bank. Accepted by Council.

No. 6.

25-1-37.

Recommendation Finance Committee No. 3 of 21-1-37. Letter from the Bombay Natural History Society asking a grant of £100. Decline, whilst expressing interest and appreciation, on ground of stringency of the Society's own financial resources. Accepted by Council.

No. 6.

25-1-37.

Recommendation Finance Committee No. 4 of 24-1-37. Death of the Despatcher, (joined 9-6-1920). Provident Fund. Provident Fund assets to be made over to legal successor of deceased in accordance with the Provident Fund regulations. Recommendation Finance Committee No. 5 of 21-1-37. Application from late despatcher's wife praying for gratuity or help. Decline in view of provisions of Provident Fund. Council order: Refer back to Finance Committee for consideration of Mr. Mahindra's suggestion that the widow of the late despatcher P. C. Deb be offered a monthly pension of Rs.10 to 12 in lieu of the lump sum payment of the amount standing to the credit of the deceased in the Society's provident fund.

No. 6.

25-1-37.

Recommendation Finance Committee No. 3 (a) of 19-2-37. Report by Messrs. Price, Waterhouse, Peat & Co., Auditors, for the year 1936. Accepted by Council.

No. 7.

30-3-37.

Recommendation Finance Committee No. 3 (b) of 19-2-37. Re-consideration of the application from the wife of the late despatcher of the Society, Babu P. C. Deb. Recommend pension of Rs.11 p.m., and the balance standing to the credit of the late P. C. Deb be transferred to the Pension Fund. Accepted by Council.

No. 7.

30-3-37.

Recommendation Finance Committee No. 3 of 28-5-37. Request from the Indian Science Congress Association for a donation to their Silver Jubilee Funds. Recommend donation of Rs.500. Accepted by Council.

No. 3.

31-5-37.

Recommendation Finance Committee No. 3 of 24-6-37. Report by the Honorary Treasurer, of a fixed deposit of Rs.10,000 made with the Imperial Bank of India, Park Street, for a period of one year. Approve. Accepted by Council.

No. 3.

28-6-37.

Recommendation Finance Committee No. 3 of 22-7-37. Resolved that the Honorary Treasurer be authorised to advance to the Indian Science Congress Association a sum not exceeding £1,000, if necessary, and if available in the cash balance of Society. Accepted by Council.

No. 2.

26-7-37.

Recommendation Finance Committee No. 3 of 26-8-37. Report by the Honorary Treasurer of the renewal during the month of a fixed deposit of Rs.10,000 with the Imperial Bank of India, Park Street Branch. Approve. Accepted by Council.

No. 3.

31-8-37.

Recommendation Finance Committee No. 4 of 26-8-37. The General Secretary reported that the old fans had been disposed of for Rs.120. Approve. Accepted by Council.

No. 3.

31-8-37.

Recommendation Finance Committee No. 4 of 25-11-37. Resolved that the General Secretary be authorised to advance the sum required to pay Messrs. Firpo Ltd. their bill for the Council's tea to H E. the Governor. Accepted by Council.

No. 5.

29-11-37.

Authority to make payments of bills during the end of the year. The Honorary Treasurer is hereby authorised to make payments of bills towards the end of the year in anticipation of sanction by the Finance Committee.

No. 6.

29-11-37.

Recommendation Finance Committee No. 2(i) of 9-12-37. Society's contribution to the Provident Fund for the year 1937. (Rs.651-6-0). Pay. Accepted by Council.

No. 6.

13-12-37.

Recommendation Finance Committee No. 2 (ii) of 9-12-37. Society's contribution to the Building Repair Fund Rs.2,000. Pay. Accepted by Council.

No. 6.

13-12-37.

Recommendation Finance Committee No. 2 (iii) of 9-12-37. Bad debts written-off during the year Rs.948-11-0. Write off. Accepted by Council.

No. 6.

13-12-37.

HONORARY FELLOWS—

On a proposal from Sir U. N. Brahmachari, seconded by Mr. Johan van Manen, it was unanimously resolved to propose the name of the President, His Excellency Sir John Anderson, for election as an Honorary Fellow at the next General Meeting of the Royal Asiatic Society of Bengal.

Special Council.

19-11-37.

INDIAN SCIENCE CONGRESS ASSOCIATION—

Recommendation Finance Committee No. 3 of 28-5-37. Request from the Indian Science Congress Association for a donation to their Silver Jubilee Funds. Recommend donation of Rs.500. Accepted by Council.

No. 3.

31-5-37.

Recommendation Finance Committee No. 3 of 22-7-37. Resolved that the Honorary Treasurer be authorised to advance to the Indian Science Congress Association a sum not exceeding £1,000, if necessary, and if available in the cash balance of Society. Accepted by Council.

No. 2.

26-7-37.

Appointment of Advisory Board for the award of: (e) Indian Science Congress (Calcutta) Medal. The question of a die to be considered by a Sub-Committee consisting of Messrs. J. N. Mukherjee, Percy Brown and the General Secretary. The Committee to report as soon as possible to Council.

No. 9.

27-9-37.

Recommendations of the Indian Science Congress Calcutta Medal Advisory Board. Award to go to Sir James Jeans. Mr. Percy Brown and the General Secretary to consider the question of a design for the medal.

No. 5.

13-12-37.

LECTURES—

Public lecture by Dr. Goetz. Accept offer of lecture; General Secretary to arrange for 12th April, 6 P.M.

No. 12.

30-3-37.

LOAN OF MANUSCRIPTS—

Application for the loan of manuscripts from:

- (a) Mr. Syed Ata Husain for 'Turjuma-i-Aadal-ul-moirideen'. Lend against indemnity bond to the value of Rs.300.
- (b) Librarian, Allahabad University, for 'Tulasidas' Hanumana Bahuka'. Lend against indemnity bond to the value of Rs.500.
- (c) Bhandarkar Oriental Research Institute for 'Sangitasiramani' and 'Natyaratnavali'. Lend against indemnity bonds to the value of Rs.500 and Rs.750, respectively.

No. 5.

25-1-37.

Application for loan of manuscripts from:—

- (a) T. R. Chintamani, Madras, for (1) Katyayana Grihya Sutra and (2) Smritimanjuri. Grant loan of No. (1) against a bond for Rs.100; (2) not to leave the Society's premises.
- (b) India Office Library, for (1) Subhasitasara-Samuccaya and (2) Mukunda-muktavali-stotra. Grant loan.

- (c) Bhandarkar Oriental Research Institute for Kathasaritsagara (two MSS.). Grant loan against bond for Rs.500.
 (d) International Academy of Indian culture for Prajnaparamita-Ratnaguna-Sancaya Gatha. Manuscript not to leave the Society's premises. Photographic copy may be arranged for.

No. 4.

30-3-37.

Application from the Librarian, Calcutta University Library, for extending the loan period of two Sanskrit MSS., Bhattacharya and Sarvamanjari, for six months. Grant extension.

No. 5.

30-3-37.

Application for loan of manuscripts from:—

- (1) Rao Bahadur K. V. Rangaswami Aiyangar, Benares, for two parts of 'Kṛitya-kalpataru of Lakshmidhara'. Grant loan against bond for Rs.200.
 (2) Bhandarkar Oriental Research Institute, Poona, for three manuscripts, (a) Sangita-Kalpadruma, (b) Sangitasara of Subhaankara and (c) Sangitakalpalata. The manuscripts being old and fragile cannot be lent out; photographic copies may be arranged for.

No. 3.

26-4-37.

Application for an extension of the loan period of a manuscript from the Librarian, Punjab University Library. Grant extension.

No. 4.

26-4-37.

Application for loan of a manuscript (Yajñavalkya-Dīpakalika) from the Curator, Bhandarkar Oriental Research Institute, Poona. If the copy be found suitable for sending out may be lent against indemnity bond to the value of Rs.400.

No. 1.

31-5-37.

Application for loan of 'Saktisangrama Tantra' Manuscript from the Director, Oriental Institute, Baroda. Lend provided the borrower undertakes to return the MS. immediately whenever called for, and only after Mr. Chintaharan Chakravarty has finished with the MS. in connection with his work on the MS. Catalogue. A letter to be written in these terms.

No. 1.

28-6-37.

Application for loan of 'Kṛtyakalpataru' manuscript by Rao Bahadur K. V. R. Ayyangar. Lend against the indemnity bond to the value of Rs.200.

No. 1.

31-8-37.

Application for loan of three manuscripts from Mr. M. Ramakrishna Kavi, Madras. Lend against the usual indemnity bonds if the application is received through the Bhandarkar Oriental Research Institute, Poona.

No. 11.

27-9-37.

Report on manuscripts lent out during the month. Record. Further resolved that no unique MS. shall be lent out to leave the Society's premises. Such MSS. to be consulted in the library.

No. 2.

29-11-37.

Application for loan of Manuscripts from:—

- (a) The Librarian, India Office Library, forwarded through the Assistant Secretary to the Government of Bengal, for two Sanskrit MSS. Lend against the usual indemnity bonds.
- (b) The Librarian, Yale University Library, for five Sanskrit MSS. The General Secretary to enquire whether the manuscripts asked for are in the Society's library; if found, lend against usual indemnity bonds.

No. 3.

29-11-37.

Application for an extension of the loan of 'Devi-Purana' manuscript from the Librarian, India Office Library. Grant.

No. 4.

29-11-37.

MEETINGS--

Consideration of the programme of the Ordinary Monthly Meeting, February, 1937. No meeting in February.

No. 12.

25-1-37.

Consideration of the Programme of the Ordinary Monthly Meeting, August, 1937. No papers having been communicated during the previous month, it was resolved that there should be no Monthly General Meeting in August.

No. 5.

26-7-37.

The question of having Committee and Council Meetings in October (Poojah Month). No meeting unless the General Secretary desires otherwise.

No. 7.

27-9-37.

Consideration of the programme of the Ordinary Monthly Meeting, November 1937. The General Secretary to arrange.

No. 8.

27-9-37.

MEMORIAL MEDALS--

Letter of thanks from Dr. J. H. Hutton for the award of the Annandale Memorial Medal. Record.

No. 1.

26-4-37.

Appointment of Advisory Board for the award of:—

(a) Sir William Jones Memorial Medal (Philosophy, Literature and History). The *Ex-Officio* members (Philological and Jt. Philological Secretaries) and the General Secretary.

(b) Barclay Memorial Medal (Zoology). The *Ex-Officio* members (Biological and Medical Secretaries) and Sir U. N. Brahmachari.

(c) Brihl Memorial Medal (Botany). The *Ex-Officio* member (Biological Secretary) and Messrs. C. C. Calder, S. P. Agharkar and R. N. Chopra.

(d) P. N. Bose Memorial Medal (Geology). Hold over; the General Secretary in the meantime to explain the position to Sir B. L. Mitter.

(e) Indian Science Congress (Calcutta) Medal. The question of a die to be considered by a Sub-Committee consisting of Messrs. J. N. Mukherjee, Percy Brown and the General Secretary. The Committee to report as soon as possible to Council.

No. 9.

27-9-37.

Recommendations of the Sir William Jones Memorial Medal Advisory Board. Accept recommendation: Prof. Dr. A. J. Wensinck.
No. 2. 13-12-37.

Recommendations of the Barclay Memorial Medal Advisory Board. Accept recommendation: Bt.-Col. R. N. Chopra.
No. 3. 13-12-37.

Recommendations of the Brühl Memorial Medal Advisory Board. After report by the General Secretary, resolved that Dr. Agharkar be requested to forward a detailed statement regarding Rao Bahadur G. N. Rangaswami Ayyangar for circulation to the Council together with the detailed statement regarding Sir William Wright Smith.
No. 4. 13-12-37.

Recommendations of the Indian Science Congress Calcutta Medal Advisory Board. Award to go to Sir James Jeans. Mr. P. Brown and the General Secretary to consider the question of a design for the medal.
No. 5. 13-12-37.

MISCELLANEOUS—

List of members contained in the Coronation Honours list. Record.
No. 7. 31-5-37.

Letter from H. Dass, London, proposing to present to the Society certain articles and books bequeathed to him by the late Miss E. R. Martin of East Putney, London. Accept with thanks.
No. 13. 29-11-37.

NATIONAL INSTITUTE OF SCIENCES OF INDIA—

Representation of the Society on the Council of the National Institute of Sciences of India. Sir U. N. Brahmachari and Mr. C. C. Calder to be the Society's representatives, the former as Vice-President and the latter as a member of Council.
No. 2. 25-1-37.

OBITUARY—

(1) MM. Kamakhyanath Tarkabagisha (An Honorary Fellow, since (1911). Announce. Mr. Chintaharan Chakravarti to prepare an obituary notice of the late MM. Kamakhyanath Tarkabagisha.
No. 10 (c) 30-3-37.

Death of an old relation of the Society, Dewan Bahadur L. K. Anantha Krishna Iyer (An Associate Member from 1910-1928). Announce. Dr. B. S. Guha to prepare an obituary notice of the late Dewan Bahadur L. K. A. Iyer.
No. 10 (d) 30-3-37.

(2) Sir W. L. Travers (An Ordinary Member, 1929); (3) Mr. B. K. Basu (An Ordinary Member, 1929); (4) Kumar H. K. Mitter (An Ordinary Member, 1929). Council Order: Announce.
No. 6 (c) 31-8-37.

(5) Lord Rutherford of Nelson (A Special Anniversary Honorary Member, 1934); (6) Prof. Dr. Herman Jacobi (An Honorary Fellow, since 1930); (7) Thakur Kishore Singh Ji Barhut (An Ordinary Member, 1926); (8) Sir Jagadis Chandra Bose (An Ordinary Member, 1895; Fellow, since 1912). Announce. The General Secretary to send condolence letters on behalf of the Society to the relatives of the late Lord Rutherford of Nelson, Dr. H. Jacobi and Sir J. C. Bose.

No. 9 (c)

29-11-37.

(9) Surendra Nath Das (An Ordinary Member, 1924). Council Order; Announce.

No. 9 (c)

13-12-37

PATRON—

On proposal from Sir U. N. Brahmachari, it was resolved to invite His Excellency Lord Brabourne to accept the patronage of the Society in place of Sir John Anderson, retired.

Council.

29-11-37.

PROVIDENT FUND—

Recommendation Finance Committee No. 4 of 21-1-37. Death of the Despatcher, (joined 9-6-1920). Provident Fund. Provident Fund assets to be made over to legal successor of deceased in accordance with the Provident Fund regulations. Recommendation Finance Committee No. 5 of 21-1-37. Application from late despatcher's wife praying for gratuity or help. Decline in view of provisions of Provident Fund. Council order: Refer back to Finance Committee for consideration of Mr. Mahindra's suggestion that the widow of the late despatcher P. C. Deb be offered a monthly pension of Rs.10 to 12 in lieu of the lump sum payment of the amount standing to the credit of the deceased in the Society's Provident Fund.

No. 6.

25-1-37.

Recommendation Finance Committee No. 4 of 19-2-37. Application for permission to contribute to the Provident Fund by Duftries: Abdul Razzak and Nawab Jan. Postpone. Accepted by Council.

No. 7.

30-3-37.

Recommendation Finance Committee No. 2 of 24-6-37. Payment of an advance of Rs.500 to Babu B. L. Dutt, Librarian, from the Provident Fund. Approve. Accepted by Council.

No. 3.

28-6-37.

Recommendation Finance Committee No. 3 of 23-9-37. Application for a loan of Rs.250 from the Provident Fund by Mr. D. K. Das. Grant; interest at 3% per annum. Accepted by Council.

No. 3.

27-9-37.

Recommendation Finance Committee No. 4 of 23-9-37. Application for a loan of Rs.100 by Mr. R. K. Iyer. Grant from the Provident Fund; interest at 3% per annum. Accepted by Council.

No. 3.

27-9-37.

Recommendation Finance Committee No. 3 of 25-11-37. Report granting during the month a loan of Rs.50 from the Provident Fund to Babu B. M. Chakravarti. Record. Accepted by Council.

No. 5.

29-11-37.

Recommendation Finance Committee No. 2 of 9-12-37. Society's contribution to the Provident Fund for the year 1937. (Rs.651-6-0). Pay. Accepted by Council.

No. 6.

13-12-37.

PUBLICATION—

Letter from the Government of India, Department of Education, Health and Lands, asking Society's views regarding continuation of the publication of the late Major Raverty's 'History of Hirat and Annals of Khurasan'. That the General Secretary be instructed to reply that in the absence of any new material before Council to enable it to express any opinion different from that expressed before by Council in 1912, the Council adheres to its previous opinion.

No. 9.

31-8-37.

REPRESENTATION—

Representation of the Society on the Council of the National Institute of Sciences of India. Sir U. N. Brahmachari and Mr. C. C. Calder to be the Society's representatives, the former as Vice-President and the latter as a member of Council.

No. 2.

25-1-37.

Representation on the Selection Committee, Kamala Lectureship, Calcutta University. Sir U. N. Brahmachari to be the Society's representative.

No. 10.

26-4-37.

Representation of the Society at the 50th Anniversary celebrations of the Allahabad University. The General Secretary to arrange after consulting members of Council who may be able to attend personally.

No. 8.

31-8-37.

STAFF—

Recommendations of the Finance Committee of 21-1-37. Accept. with modification of points 4 and 5 as follows:

Refer back to Finance Committee for consideration of Mr. Mahindra's suggestion that the widow of the late Despatcher P. C. Deb be offered a monthly pension of Rs.10 to 12 in lieu of the lump sum payment of the amount standing to the credit of the deceased in the Society's Provident Fund.

No. 6.

25-1-37.

Recommendation Finance Committee No. 3(b) of 19-2-37. Re-consideration of the application from the wife of the late despatcher of the Society, Babu P. C. Deb. Recommend pension of Rs.11 p.m., if balance standing to the credit of the late P. C. Deb is transferred to the Pension Fund. Accepted by Council.

No. 7.

30-3-37.

Recommendation, Finance Committee No. 5 of 19-2-37. Application for increment from the staff. Refer to General Secretary and the Honorary Treasurer as per earlier resolution of the Finance Committee. Accepted by Council.

No. 7.

30-3-37.

Application for leave from the Head Clerk. Grant.

No. 13.

26-4-37.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Royal Asiatic Society of Bengal,
On the 31st December, 1937.**

PATRONS OF THE ROYAL ASIATIC SOCIETY OF BENGAL.

1936 ..	.. H.E. the Most Hon'ble the Marquess of Linlithgow, P.C., Kt., G.M.S.I., G.M.I.E., O.B.E., D.L., T.D., Viceroy and Governor-General of India.
1932 ..	.. H.E. the Right Hon'ble Sir John Anderson, P.C., G.C.B., G.C.I.E., Governor of Bengal.
1910-1916	.. Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O., I.S.O.
1917-1922	.. Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1922-1927	.. Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	.. Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	.. Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.
1931-1936	.. Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1937.

Elections Annual Meeting.

President.

H.E. The Rt. Hon'ble Sir John Anderson, P.C., G.C.B., G.C.I.E.

Vice-Presidents.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., M.A., M.D., Ph.D.,
F.R.A.S.B.

A. M. Heron, Esq., D.Sc., F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B.

Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E., F.R.A.S.B.

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Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit., F.R.A.S.B.

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlawi M. Hidayat
Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.

Natural History Secretaries { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.R.A.S.B.
Physical Science :—J. N. Mukherjee, Esq., D.Sc.,
F.C.S.

Anthropological Secretary :—Rai Bahadur Ramaprasad Chanda, B.A.,
F.R.A.S.B.

Medical Secretary :—Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S.,
F.R.A.S.B.

Library Secretary :—M. Mahfuz-ul Haq., Esq., M.A.

Other Members of Council.

C. C. Calder, Esq., B.Sc., F.L.S.

N. G. Majumdar, Esq., M.A., F.R.A.S.B.

K. C. Mahindra, Esq., B.A.

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

B. S. Guha, Esq., M.A., Ph.D.

W. D. West, Esq., M.A.

APPOINTMENTS, TRANSFERS, AND OTHER CHANGES DURING THE YEAR.

Sir U. N. Brahmachari, Acting President, *vice* H.E. Sir John Anderson,
absent, from 15-4-37 to 21-7-37 and from 15-11-37 to end of the year.

Dr. B. S. Guha, Anthropological Secretary, *vice* Rai Bahadur R. Chanda,
resigned, on 6-12-37.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Dr. S. L. Hora,
absent, from 1-1-37 to 15-1-37; from 29-6-37 to 6-7-37 and from
8-11-37 to 29-11-37.

Mr. W. D. West, absent from 1-3-37 to 20-4-37.

Mr. Percy Brown, absent from 25-3-37 to 31-10-37.

Lt.-Col. N. Barwell, absent from 15-3-37 to 15-4-37.

Brevet-Col. R. N. Chopra, absent from 15-4-37 to 25-8-37.

Dr. A. M. Heron, absent from 11-4-37 to 26-7-37.

Mr. C. C. Calder, absent from 1-11-37 to end of the year.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL ELECTED FOR THE YEAR 1938.

President.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Vice-Presidents.

A. M. Heron, Esq., D.Sc., F.G.S., F.R.G.S., F.R.S.E.,
F.R.A.S.B.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S.,
F.R.A.S.B.

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

Secretaries and Treasurer.

General Secretary :—Johan van Manen, Esq., C.I.E.,
F.R.A.S.B.

Treasurer :—Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Philological Secretary :—S. K. Chatterji, Esq., M.A., D.Lit.
F.R.A.S.B.

Joint Philological Secretary :—Shamsu'l 'Ulama Mawlawi
M. Hidayat Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.

Natural History Secretaries. { Biology :—Baini Prashad, Esq., D.Sc., F.Z.S.,
F.R.S.E., F.R.A.S.B.
Physical Science :—J. N. Mukherjee, Esq.,
D.Sc., F.C.S., F.R.A.S.B.

Anthropological Secretary :—B. S. Guha, Esq., M.A., Ph.D.

Medical Secretary :—Rai Sir Upendra Nath Brahmachari
Bahadur, Kt., M.A., M.D., Ph.D., F.R.A.S.B.

Library Secretary :—M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

N. G. Majumdar, Esq., M.A., F.R.A.S.B.

K. C. Mahindra, Esq., B.A. (Cantab.).

W. D. West, Esq., M.A.

Sir George Campbell, Kt.

Major C. L. Pasricha, M.A., M.B., B.Ch., M.R.C.S., I.M.S.

Kalipada Biswas, Esq., M.A., D.Sc.

ORDINARY MEMBERS.

R=Resident N=Non-Resident. F=Foreign. A=Absent. L=Life.

An Asterisk is prefixed to names of Ordinary Fellows of the Society.

Date of Election		
5-4-22	R	Abdul Ali , ABUL FAIZ MUHAMMAD, M.A., M.R.A.S., F.R.S.L., F.R.G.S., F.R.H.S. 3, Turner Street, Calcutta.
7-3-27	R	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZIL (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Islamia College.</i> 19, Wellesley Square, Calcutta.
2-11-25	N	Acharya , PARAMANANDA, B.S.C., <i>State Archaeologist.</i> Mayurbhanj State, Baripada.
2-3-21	R	Agharkar , SHANKAR PURUSHOTTAM, M.A., PH.D., F.L.S., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University.</i> 35, Ballygunge Circular Road, Calcutta.
3-2-36	N	Ahmad , ALFAZUDDIN KHAN BAHADUR, M.A., <i>Retired Assistant Director of Public Instruction, Bengal.</i> Dhalhora, P.O. Tamruk, Midnapur.
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan.</i> 2, Andrabi, Kabul, Afghanistan.
4-1-37	R	Ahmad , SHAMSI DDIN, <i>Archaeological Section, Indian Museum,</i> 27, Chowringhee, Calcutta.
6-6-17	N	Aiyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A., <i>Late Director of Public Instruction, Travancore; Principal, Central Hindu College, Hindu University.</i> Benares.
6-12-26	N	* Aiyangar , S. KRISHNASWAMI, M.A., PH.D., M.R.A.S., F.R.HIST.S., F.R.A.S.B., <i>Rajasevasakta, Professor, University of Madras.</i> "Sripadam", 143, Brodies Road, Mylapore, Madras, S.
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti.</i> Hoti, N.-W.F.P.
6-1-36	R	Anderson , HIS EXCELLENCY THE RT. HON'BLE SIR JOHN, F.C., G.C.B., G.C.I.E., <i>Governor of Bengal.</i> Calcutta.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. c/o The Royal Empire Society, Northumberland Avenue, London, W.C.
5-4-37	R	Asari , J. R., <i>Retd. Asstt Controller of Printing, Stationery and Stamps,</i> Suite 10, 23, Central Avenue, Calcutta.
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant.</i> Trueloves, Ingates-ton, Essex, England.
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd.</i> Norton Building, Lalbazar, Calcutta.
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., I.E.S., <i>Professor of Zoology.</i> Royal Institute of Science, Mayo Road, Fort, Bombay.
3-3-14	L	* Bacot , J., F.R.A.S.B. Boulevard Saint-Antoine, 61, Versailles, Seine-et-Oise, France.

Date of Election.		
7-9-36	R	Bagchi, KUMAR NATH, RAI BAHADUR, B.SC., M.B. (CAL.), D.T.M. (CAL. & L'POOL), F.I.C. (LOND.), Chemical Examiner to the Government of Bengal. Medical College, Calcutta.
1-11-26	R	Bagchi, PROBODH CHANDRA, M.A., DR.-ES-LETTRES (PARIS), Member of the A.S. of Paris; Lecturer, Calcutta University. 9, Rustomjee Street, Ballygunge, Calcutta.
1-3-26	R	Bagnall, JOHN FREDERICK, B.SC., A.M.I.MECH.E., A.M.I.E.E., A.M.INST.C.E., Consulting Engineer, Messrs. Macneill & Co. 2, Fairlie Place, Calcutta.
2-4-24	N	*Bahl, K. N., D.SC., D.PHIL., F.R.A.S.B., Professor of Zoology, Lucknow University. Badshahbagh, Lucknow.
7-3-27	A	Bake, A. A., Doctorandus Or. Lit. P.O. Santiniketan. (c/o The Kern Institute, Leiden, Holland.)
6-2-18	N	Banerjee, NARENDRA NATH, M.I.P.O.E.E., A.M.I.E., Director of Telegraphs, Bombay Circle, Bombay.
5-3-24	R	Banerjee, P. N., M.A. (CANTAB.), A.M.I.E., F.C.U., Civil Engineer. 12, Mission Row, Calcutta.
7-12-36	R	Banerjee, S. M., I.C.S., 18/1, Ballygunge Circular Road, Calcutta.
3-8-31	N	Barua, KANAK LAL, RAI BAHADUR, B.L., F.R.S.E., President, Kamarupa Anusundhan Samiti, late Minister to the Government of Assam. Rosaville, Nangthymai, Shillong, Assam.
3-12-23	R	Barwell, N. F., LT.-COL. (RETD.), M.C., M.A., Bar.-at-Law. First Floor, 6, Middleton Street, Calcutta (and) Aylmerton House, Aylmerton, Norfolk, England.
7-12-36	R	Basu, I. B., M.D., 19, Vivekananda Road, Calcutta.
3-12-24	R	Basu, JATINDRA NATH, M.A., M.L.C., Solicitor. 14, Baloram Ghose Street, Calcutta.
1-3-26	R	Basu, NARENDRA KUMAR, M.L.C., Advocate, High Court. 12, Ashu Biswas Road, Bhawanipore, Calcutta.
2-1-28	R	Basu, NARENDRA MOHAN, M.S.C., Professor of Physiology. 63, Hindusthan Park, Ballygunge, Calcutta.
30-9-35	N	Basu, SATYENDRA KUMAR, M.S.C., Extra Assistant Conservator of Forests. Clover Cot, Darjeeling.
7-7-09	N	Bazaz, RANGNATH KHEMRAJ, Proprietor, Shri Venkateshwar Press. 7th Khetwadi, Bombay No. 4.
7-5-34	R	Bent, WILLIAM ANTONY, Assistant, Messrs. George Henderson & Co., Ltd. 101/1, Clive Street, Calcutta.
4-3-25	R	Benthall, SIR EDWARD C., KT., Merchant. 37, Ballygunge Park, Calcutta.
7-4-09	L	*Bentley, CHARLES A., C.I.E., M.B., D.P.H., D.T.M. & H., F.R.A.S.B., Professor of Hygiene. University of Egypt, Cairo.
6-1-36	N	Berkeley-Hill, OWEN ALFRED ROWLAND, M.A., M.D., B.CH. (OXON.), M.R.C.S. (ENGLAND), D.T.M. (LONDON), LT.-COL., I.M.S. (RETD.), 'Station View', Ranchi, B. & O.
4-6-28	N	Bhadra, SATYENDRA NATH, RAI BAHADUR, M.A., Principal, Jagannath Intermediate College. Nayabazar, Dacca.
1-8-17	R	*Bhandarkar, DEVADATTA RAMKRISHNA, M.A., PH.D., F.R.A.S.B. 2/1, Lovelock Street, Ballygunge, Calcutta.
5-4-26	N	Bhatia, M. L., M.S.C., Lecturer in Zoology. Lucknow University, Lucknow.
1-2-22	N	Bhattacharya, VIDHUSHEKHARA, PANDIT, Principal, Vidyabhavana. Visvabharati, Santiniketan, Birbhum.
7-7-24	L	Bhattacharyya, BINOYTOSH, M.A., PH.D., RAJARATNA, General Editor, Gaskwad's Oriental Series, and Librarian, Oriental Collections, Baroda State. Baroda.

Date of Election.		
4-6-28	N	Bhattachali , NALINI KANTA, M.A., PH.D., <i>Curator, Dacca Museum</i> . Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., <i>Advocate, Calcutta High Court</i> . 24A, Ray Bagan Street, Calcutta.
5-2-34	A	Bhuyan , SURYYA KUMAR, RAI BAHADUR, M.A., B.L., A.E.S., <i>Honorary Provincial Director of Historical and Antiquarian Studies, Assam; Professor, Cotton College</i> . Gauhati, Assam.
5-3-28	R	Biswas , CHARU CHANDRA, C.I.F., M.A., B.L., <i>Judge, High Court</i> . 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	L	Biswas , KALIPADA, M.A. D.Sc. (Edin.), <i>Royal Botanic Garden</i> , Sibpur, Howrah
3-1-27	N	Bivar , HUGH GODFREY STUART, I.C.S., <i>District and Sessions Judge</i> . Murshidabad.
1-2-93	L	*Bodding , REV. P. O., M.A. (CHRIST.), F.R.A.S.B. <i>Gullera-asveien 27, Vettakollen, Oslo, Norway</i> .
4-11-35	A	Bor , N. L., M.A., D.Sc., F.L.S., I.F.S. c/o The Conservator of Forests, Shillong, Assam.
7-12-36	N	Bose , A. N., LT COL., I.M.S., <i>Medical College</i> . Patna.
6-7-25	R	Bose , MANMATHA MOHAN, M.A., <i>Professor Emeritus, Scottish Church College</i> . 19, Gokul Mitra Lane, Hatkhola, Calcutta
2-3-31	N	Bose , SUDEANSU KUMAR, B.Sc. (CAL.), A.B.S.M., B.Sc. (MINING) (LONDON), <i>Professor of Mining and Surveying</i> . Indian School of Mines, Dhanbad.
2-11-36	R	Bothra , SUBHKARAN, B.A., <i>Landholder and Student</i> . 3, Vivekananda Road, Calcutta
4-5-31	A	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., <i>Director of Public Instruction, Bengal</i> . 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., <i>Adviser in Languages and Secretary to the Board of Examiners</i> . Army Headquarters, Simla.
3-12-34	R	Brahmachari , PHANINDRA NATH, M.Sc., M.B. 19, Loudon Street, Calcutta.
1-1-08	L	*Brahmachari , SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.R.A.S.B. 19, Loudon Street, Calcutta.
7-11-27	R	Brahmachary , SARAT CHANDRA, RAI BAHADUR, M.A., B.T. Kasba Road, Ballygunge, P.O. Dhakuria, 24-Perge.
6-1-36	R	Brocke , ALFRED G., D.Sc. (DOCTOR PHILOSOPHIE NATURALIS) (JENA), <i>Branch Manager, Pharmaceutical Department, 'Bayer'</i> . 11, Store Road, Ballygunge, Calcutta.
3-7-07	L	*Brown , JOHN COGGIN, O.B.E., D.Sc., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.R.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
6-10-09	R	*Brown , PERCY, A.R.C.A., F.R.A.S.B., <i>Curator, Victoria Memorial</i> . Calcutta.
8-1-96	F	*Burn , SIR RICHARD, KT., C.S.I., F.R.A.S.B. 9, Staverton Road, Oxford, England.
3-12-34	N	Burt , SIR BRYCE CHUDLEIGH, KT., C.I.E., M.B.E., B.Sc., I.A.S., <i>Agricultural Expert, Imperial Council of Agricultural Research</i> . 1, York Road, New Delhi.
2-4-13	R	Calder , CHARLES CUMMING, B.Sc., F.L.S., <i>Superintendent, Royal Botanic Garden</i> . Sibpur, Howrah.

Date of Election.		
4-11-29	R	Campbell, SIR GEORGE R., KT., <i>Partner, Messrs. Mackinon Mackenzie & Co.</i> 16, Strand Road, Calcutta.
3-2-36	R	Catto, SIR THOMAS S., BART., <i>Merchant and Banker, Andrew Yule & Co., Ltd.</i> 8, Clive Row, Calcutta.
1-9-20	R	Chakladar, HARAN CHANDRA, M.A. 28/4, Srimohan Lane, Kalighat, Calcutta.
7-3-32	R	Chakraborty, KHIRODE BEHARI, <i>Engineer and Manufacturer.</i> 7, Hindusthan Park, P.O. Ballygunge, Calcutta.
4-7-27	R	Chakravarti, CHINTAHARAN, M.A., <i>Lecturer, Bethune College.</i> 28/3, Sahanagar Road, Kalighat, Calcutta.
3-2-30	N	Chakravarti, M. N., M.Sc., A.T.S. 'Gitanjali'. 15, Lodge Road, Lahore
5-6-33	N	Chakravarti, SUSIL KUMAR, M.A., <i>Zemindar.</i> Cooch Behar (Cooch Behar State).
3-1-27	N	Chakravarty, NIRANJANPRASAD, M.A., PH.D. (CANTAB.), <i>Government Epigraphist.</i> Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
6-1-30	A	Chakraverti, SERISH CHANDRA, B.L., <i>Attorney-at-Law, High Court, Calcutta.</i> 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda, RAMAPRASAD, RAI BAHADUR, B.A., F.R.A.S.B. 37/1, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman, JOHN ALEXANDER, <i>Librarian, Rampur State Library.</i> Rampur.
7-5-28	R	Chatterjee, SIR NALINI RANJAN, KT., M.A., B.L., <i>Retired Judge and sometime acting Chief Justice, Calcutta.</i> 91A, Harish Mukerjee Road, Bhawanipore, Calcutta.
7-2-27	R	Chatterjee, ASHOKE, B.A. (CAL.), B.A. (CANTAB.), <i>Editor, 'Welfare'.</i> 91, Upper Circular Road, Calcutta.
27-10-15	F	Chatterjee, SIR ATUL CHANDRA, K.C.I.E., K.C.S.I., <i>Late High Commissioner for India.</i> Withdean. Cavendish Road, Weybridge, Surrey, England.
2-3-36	R	Chatterjee, MANOMOHAN, B.SC. (CAL.), A.R.C.S., D.I.C., PH.D (LOND.), <i>Professor of Geology, Presidency College.</i> 170/2, Lower Circular Road, P.O. Entally, Calcutta.
1-10-20	R	Chatterjee, NIRMAL CHANDRA. 52, Haris Mukerjee Road, Bhawanipore, Calcutta.
4-7-27	R	Chatterjee, PATITPABON, M.A., B.L., <i>Vakil, High Court.</i> 84, Harrison Road, Calcutta
3-12-34	R	Chatterjee, SISIR (HANDRA, M.D. (EDIN.), M.R.C.P. (EDIN.), D.P.H. (EDIN.), <i>Chief Medical Officer, E.B. Ry.</i> 3, Koilaghath Street, Calcutta.
5-1-31	R	Chatterji, DURGACHARAN, M.A., <i>Lecturer in Sanskrit, Bethune College.</i> P. 317, Jatin Das Road, Kalighat, Calcutta.
4-6-34	N	Chatterji, BIJAN RAJ, PH.D. (LONDON), D.LITT. (PUNJAB), <i>Professor of History, Meerut College.</i> Meerut.
7-5-28	R	Chatterji, KEDAR NATH, B.SC. (LONDON), A.E.C.S. (LONDON). 43, Wellesley Street, Calcutta.
7-6-11	R	Chatterji, KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 6/1, Wood Street, Calcutta
6-8-24	R	*Chatterji, SUNITI KUMAR, M.A. (CAL.), D.LIT. (LONDON), F.R.A.S.B., <i>Khaira Professor of Linguistics, Calcutta University.</i> 'Sudharma', 16, Hindusthan Park, (off Rasbihari Avenue East End), Ballygunge, Calcutta.
2-3-36	R	Chatterji, MRS. TUHINIKĀ, M.A., KĀYATĪRTHA, <i>Research Scholar, Examiner, Calcutta University.</i> 5, Wood Street, Calcutta.

Date of Election.		
5-11-24	R	Chattopadhyay, K. P., M.Sc., <i>Education Officer, Corporation of Calcutta.</i> 55/1, Old Ballygunge 1st Lane, Calcutta.
2-11-25	N	Chattopadhyaya, KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit.</i> Allahabad University, Allahabad.
1-4-14	R	Chaudhuri, GOPAL DAS. 32, Beadon Row, Calcutta.
4-11-35	R	Chaudhuri, SACHINDRA NATH, <i>Barrister-at-Law.</i> 52, Ballygunge Circular Road, Calcutta.
5-12-23	R	Chopra, B. N., D.Sc., F.L.S., <i>Assistant Superintendent, Zoological Survey of India.</i> Indian Museum, Calcutta.
1-2-22	R	*Chopra, R. N., C.I.E., M.A., M.D. (CANTAB.), BREVET-COL., I.M.S., F.R.A.S.B., <i>Professor of Pharmacology.</i> School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.
5-12-27	L	Chowdhury, SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road, Calcutta.
2-4-28	R	Chowdhury, RAI JATINDRANATH, <i>Zemindar.</i> 36, Russa Road, Tollygunge, Calcutta.
3-7-07	L	*Christie, WILLIAM ALEXANDER KYNOCH, B.Sc., PH.D., M.INST.M.M., F.R.A.S.B. <i>Defence Department, Secretariat.</i> Simla.
3-11-09	A	*Christophers, SIR SAMUEL RICKARD, KT., C.I.E., O.B.E., F.R.S., F.R.A.S.B., M.B., LT.-COL., I.M.S. 80, Onslow Gardens, South Kensington, London, S.W. 7.
1-9-15	R	Cleghorn, MAUDE LINA WEST (MISS), F.L.S., F.E.S. 43, Moulahat Road, Calcutta.
2-2-31	R	Clough, JOHN, <i>Barrister-at-Law.</i> 17, Storo Road, Ballygunge, Calcutta.
5-5-30	F	Cooper, G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
6-11-33	R	Coulson, ARTHUR LENNOX, D.Sc. (MELB.), D.I.C., F.G.S. <i>Geological Survey of India,</i> 27, Chowringhee, Calcutta.
4-11-29	L	*Cotter, GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.R.A.S.B. 'Fallowfield', Manor Road, Penn., Bucks., England.
5-3-34	R	Craddock, SIR WALTER MERRY, KT., D.S.O., COLONEL, M.C., <i>Stock Broker.</i> Bengal Club, Calcutta.
25-8-87	R	Criper, WILLIAM RISDON, F.O.S., F.I.C., A.R.S.M. <i>Konnagar.</i>
2-11-25	A	Crookshank, HENRY, B.A., B.A.I. (DUBLIN), <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
7-12-36	R	Daga, MADANGOPAI, <i>Merchant and Landlord.</i> 374, Upper Chitpore Road, Calcutta.
7-3-32	R	Darbari, M. D., <i>Incorporated Accountant, S.B. Billimoria & Co., Ltd.</i> 100, Clive Street, Calcutta.
4-3-25	R	Das, AJIT NATH, RAI BAHADUR, M.R.A.S., F.Z.S., <i>Zemindar.</i> 24, South Road, Entally, Calcutta.
1-3-26	R	Datta, HIRENDRA NATH, M.A., B.L., <i>Solicitor, High Court.</i> 139, Cornwallis Street, Calcutta.
6-8-24	L	Davies, L. M., LT.-COL., LATE R.A., M.A., F.R.S.E., F.R.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	R	De, J. C., M.B., LT.-COL., I.M.S., <i>Superintendent, Campbell Medical School.</i> 135, Lower Circular Road, Calcutta.
19-9-95	L	De, KIRAN CHANDRA, C.I.E., B.A., I.C.S. (RETD.), <i>Manager, Nawab Bahadur of Murshidabad Estate.</i> Lalbagh, Murshidabad.

Date of Election.		
4-3-25	R	Deb, KSHITINDRA, Rai Mahasai, 21/E, Rani Sankari Lane, Kalighat, Calcutta.
5-12-27	L	Dechhen, H.H. MAHARANI KUNZANG, Maharani of Sikkim. Gangtok, Sikkim.
5-5-30	N	Deo, SIR PRATAP CHANDRA BHANJ, K.C.I.E., Maharajah, Ruler of Mayurbhanj State. P.O. Baripada, Mayurbhanj, B.N.R.
5-11-34	R	Dey, MUKUL, A.B.C.A. (LOND.), M.C.S.E. (U.S.A.), F.R.S.A., etc., Principal, Govt. School of Art; Officer in charge, Art Section; Keeper of Govt. Art Gallery; Trustee, Indian Museum. 28, Chowringhee, Calcutta.
4-5-10	L	Dhavlé, THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., Judge, Patna High Court. Patna.
4-8-20	N	*Dikshit, KASHINATH NARAYAN, M.A., F.R.A.S.B. c/o The Office of the Director-General of Archaeology, New Delhi.
5-1-98	R	Dods, WILLIAM KANE, Agent, Hongkong and Shanghai Banking Corporation. 6, Minto Park, Alipur, Calcutta.
2-2-31	A	Douglas, GORDON WATSON, B.SC., D.L.M., State Chemist to the Government of Bhopal. State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey, FREDERICK. 'Ballygunge', Cooden Drive, Bexhill-on-Sea, Sussex, England.
7-11-32	R	Driver, DARAB CURSETJI, M.A. (CANTAB.), Barrister-at-Law, Constituted Attorney to Messrs. Tata & Sons, Ltd, Managing Agents for The Tata Iron & Steel Co., Ltd. 71/73, Park Street, Calcutta.
1-7-29	A	Dunn, JOHN ALEXANDER, D.SC., D.I.C., F.G.S., Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
6-9-37	R	Durniz-Podewills, COUNT. 34, Park Street, Calcutta.
2-1-33	N	Dutch, ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., District Magistrate. Noakhali.
3-7-33	A	Dutt, GURU SADAY, Barrister-at-Law, I.C.S. 12, Loudon Street, Calcutta.
30-9-35	R	Dutt, MOHENDRA NATH, L.E., Consulting Engineer. 12, Kailas Bose Lane, Howrah.
5-12-32	R	Dutt, NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), Lecturer, Calcutta University. 91-1B, Manicktollah Street, Calcutta.
5-3-28	A	Eberl, OTTO, DR. JUR., Late Vice-Consul for Germany. 2, Store Road, Ballygunge, Calcutta.
4-11-29	R	Edwards, L. BROOKE, Manager in India, The Baldwin Loco. Works of Philadelphia, U.S.A. 5, Dalhousie Square, Calcutta.
5-1-31	L	Evans, PERCY, B.A. (CANTAB.), F.G.S., Geologist. c/o The Burma Oil Co., Digboi, Assam.
6-2-28	L	Ezra, SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-12-29	N	Fawcus, LOUIS REGINALD, B.A. (CANTAB.), Indian Civil Service, Magistrate and Collector. Dacca.
3-8-04	L	*Fermor, SIR LEWIS LEIGH, KT., O.B.E., M.INST.M.M., D.SC., A.R.S.M., F.G.S., F.R.S., F.R.A.S.B., Director, Geological Survey of India. 27, Chowringhee, Calcutta.
31-10-06	F	Finlow, ROBERT STEEL, C.I.E., B.SC., F.I.C., Late Director of Agriculture, Bengal. c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.

Date of Election.		
3-2-36	R	Flury, ERNEST CHARLES , <i>Merchant, Manager of Messrs. Volkart Brothers.</i> 11, Clive Street (Post Box No. 606), Calcutta.
5-11-13	R	Fox, CYRIL S. , D.S.O. (BIRM.), M.I.M.E., F.U.S. Geological Survey of India, 27, Chowringhee, Calcutta.
7-3-27	F	Fukushima, NAOSHIRO. 33, Hikawacho, Akasaka, Tokyo, Japan.
5-11-28	R	Galstaun, JOHN CARAPIET , O.B.E., <i>Merchant and Landholder.</i> 234/4, Lower Circular Road, Calcutta.
1-11-28	R	Galstaun, SHANAZAN , M.A., D.M.B.E., M.R.C.S., L.B.C.P., <i>Medical Practitioner, Radiologist, Medical College Hospital.</i> 39, Theatre Road, Calcutta.
6-10-09	R	*Gangoly, ORDHENDRA COOMAR , B.A., F.R.A.S.B. 2, Asutosh Mukherjee Road, Calcutta.
7-9-36	R	Gangooly, PHANINDRA LAL , M.A., <i>Lecturer in Mathematics, Calcutta University.</i> P-507, Rash Behari Avenue, Calcutta.
5-11-34	R	Gee, EDWARD ROWLAND , M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
2-1-33	R	George, JAMES , B.A. (CANTAB.), I.C.S., <i>Special Officer, Political Department, Govt. of Bengal.</i> United Service Club, Calcutta.
6-2-33	L	Ghatlak, JYOTISH CHANDRA , M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, <i>Professor.</i> 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.
7-12-36	N	Ghosal, SARADINDU MOHAN , M.B., M.R.C.P. Prince of Wales' Medical College, Patna.
7-5-28	R	Ghosal, UPENDRA NATH , M.A., PH.D., <i>Professor of History, Presidency College.</i> 12, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose, BIMAL CHANDRA , <i>Barrister-at-Law.</i> 27/1, Hariash Mukherjee Road, Calcutta.
1-4-29	R	Ghose, DEB PROSONNO , <i>Zemindar.</i> 75, Beadon Street, Calcutta.
7-1-29	R	Ghose, THE HON'BLE MR. JUSTICE MOHIM CHANDRA , B.A. (CAL.), M.A. (CANTAB.), I.C.S., <i>Barrister-at-Law (Inner Temple), Judge, High Court.</i> 4A, Little Russell Street, Calcutta.
3-12-24	R	Ghose, SUSHIL CHANDRA , B.A., <i>Deputy Magistrate.</i> 1, Sikdarbagan Street, Calcutta.
7-9-36	R	Ghosh, J. , M.A., PH.D. (EDIN.) Presidency College, Calcutta.
2-4-24	R	Ghosh, K. , D.T.M., D.P.H. (CANTAB.), L.M.S., <i>Medical Practitioner.</i> 45, Creek Row, Calcutta.
7-3-27	R	Ghosh, PHANINDRA NATH , M.A., PH.D., SO.D. (PADUA), F.INST.P., <i>Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh, TARAPADA , <i>Zemindar.</i> 14, Paddapukur Street Kidderpore, Calcutta.
1-2-26	R	Ghuznavi, SIR ABDUL HALIM, KT. , M.L.A., <i>Zemindar.</i> 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi, ISKANDER S. K. , <i>Zemindar and Member, Advisory Board of Industries, Government of Bengal.</i> 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.
1-2-26	R	Ghuznavi, ALHADJ SIR ABDELKERIM ABU AHMED KHAN, KT. , <i>Zemindar of Dilduar.</i> 45, Jhowtolla Road, Calcutta (and) North House, Dilduar, Mymensingh.

Date of Election.		
7-12-36	R	Gillespie, A. D. 17, Old Court House Street, Calcutta.
5-3-28	R	Goopu, DWIJENDRA NATH, <i>Medical Practitioner and Landholder</i> . 5, Middleton Street, Calcutta.
7-9-10	N	*Gravely, FREDERIC HENRY, D.S.C., F.R.A.S.B. Museum House, Egmore, Madras.
5-12-00	L	Grieve, JAMES WYNDHAM ALLEYNE. c/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-3-35	R	Groth, EDWARD M., <i>American Consul</i> . American Consulate General, 9, Esplanade Mansions, Esplanade, Calcutta.
4-2-25	R	Guha, B. S., M.A., PH.D. (HARVARD). Indian Museum, Calcutta.
5-4-37	R	Gupta, KARUNA KANA (MISS). M.A., <i>Professor of History</i> . Bethune College, Calcutta.
5-3-19	N	Gupta, SIVAPRASAD. Seva Upavana, Benares City.
5-8-15	R	Gurner, CYRIL WALTER. B.A. (OXON), I.C.S., <i>Chairman, Improvement Trust</i> . 4, Theatre Road, Calcutta.
5-2-34	R	Haldar, BHARATI VIKAS, M.A., B.L., <i>Advocate, High Court</i> . 47, Haldarpara Road, Kalighat, Calcutta.
6-1-30	R	Haldar, SUDHINDRA KUMAR, M.A., I.C.S., <i>Commissioner of Excise and Salt, Bengal</i> . 241, Lower Circular Road, Calcutta.
6-1-30	F	Hamilton, SIR DANIEL MACKINNON, KT., <i>Retired Partner, Messrs. Mackinnon Mackenzie & Co.</i> Balmacara, Rosshire, Scotland.
2-4-24	R	Hag, M. MAHFUZ-UL, M.A., <i>Lecturer, Presidency College</i> . 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	R	Harley, ALEXANDER HAMILTON, M.A., I.E.S., <i>Principal, Islamia College</i> . 19, Wellesley Square, Calcutta.
1-2-26	F	Harris, H. G. c/o Messrs. Martin & Harris, Ltd., Rowlette Buildings, 17, Prinsep Street, Calcutta.
2-4-28	R	Harris, LAWRENCE ERNEST, <i>Engineer, Manager for India, Messrs. Sulzer Brothers</i> . 4, Lyons Range, Calcutta.
5-11-19	N	Hemraj, MANYABARA RAJ GURU, C.I.E., PANDITJI. Dhokatole, Nepal.
6-8-28	R	*Heron, A. M., D.S.C. (EDIN.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., <i>Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-6-11	L	*Hidāyat Hosain, MUHAMMAD, SHAMS 'UL-'ULAMA, KHAN BAHADUR, PH.D., F.R.A.S.B. 96/3, Collin Street, Calcutta.
1-2-26	A	Hingston, H., LT.-COL., I.M.S., M.D., <i>Late Surgeon to H.E. the Governor of Bengal</i> . England.
4-11-35	R	Hirtzel, MICHAEL ARTHUR FREDERICK, B.A. (TRINITY COLLEGE, OXFORD), <i>Mercantile Assistant, Macneill & Co.</i> 2, Fairlie Place, Calcutta.
1-4-25	R	Hobbs, HENRY, MAJOR, V.D., <i>Merchant</i> . 9, Old Court House Street, Calcutta.
1-2-32	R	Holme, JAMES WILLIAM, M.A., I.E.S. (RETD.), <i>Principal, La Martinière</i> . 11, Loudon Street, Calcutta.
7-3-27	N	Hopkinson, ARTHUR JOHN, I.C.S., <i>Secretary to the Government, N.-W.F. Province</i> . Peshawar, N.-W.F.P.
2-11-21	L	*Hora, SUNDER LAL, D.S.C., F.Z.S., F.R.S.E., F.R.A.S.B. Zoological Survey of India, Indian Museum, Calcutta.
5-11-34	R	Hosain, PRINCE AFSARUL MULUK MIRZA MUHAMMED AKBAM, BAHADUR, <i>Political Pensioner and Landholder</i> . Afsar Manzil, 20, Ballygunge Circular Road, Calcutta.

Date of Election.		
6-6-23	L	*Howard, SIR ALBERT, KT., C.I.E., M.A., F.R.A.S.B., <i>Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India.</i> 14, Liskeard Gardens, Blackheath, London, S.E. 3.
2-9-35	N	Howland, FELIX, <i>Professor of English.</i> Habibia College, Kabul, Afghanistan.
7-3-32	N	Hughes, ARTHUR, B.A. (MANCHESTER), <i>Indian Civil Service, Magistrate and Collector,</i> Murshidabad, Bengal.
4-5-36	N	Husain, SYED ASAF, M.A., LL.B., <i>Lawyer.</i> 3, Old Court Road, Lucknow.
6-8-34	N	Husain, SYED ATA, M.A. (CAL.), O.E. (ROORKEE), <i>RETIRED Superintending Engineer, Hyderabad State.</i> Mohalla Lingumpally, Hyderabad, Deccan
6-6-23	F	*Hutton, J. H., C.I.E., I.C.S., M.A., D.S.C., F.R.A.S.B. <i>University Museum of Archaeology and Ethnology,</i> Downing Street, Cambridge, England.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe, Hants, England.
4-3-35	R	Jack, THE HON'BLE MR. JUSTICE ROBERT ERNEST, I.C.S., <i>Judge, High Court.</i> United Service Club, Calcutta.
6-6-27	L	Jain, BALDEODAS, <i>Merchant and Banker.</i> 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHHOTE LAL, M.R.A.S. 25, Central Avenue North, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Devashrama, Arrah.
6-8-28	N	Jaitly, P. L., <i>Electrical Engineer, Merchant.</i> 15, Canning Road, Allahabad.
1-11-26	F	Jameson, THOMAS BLANDFORD, MAJOR, M.C., M.A. (CANTAB.), I.C.S. Claremont, Kingskerswell, S. Devon, England.
6-5-25	R	Jatia, SIR ONKAR MULL, KT., O.B.E., <i>Merchant.</i> 2, Rupchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN, D.S.C. (SHEFFIELD), I.E.S., <i>Principal, David Hare Training College.</i> United Service Club, Calcutta.
1-11-11	L	Kamaluddin AHMAD, SHAMS-UL-'ULAMĀ, M.A., I.E.S., <i>Principal, Krishnagar College.</i> Krishnagar, Nadia.
6-11-33	R	Kavyatirtha, RAM DHAN, <i>Pundit.</i> 55, Surendranath Banerjee Road, Calcutta.
4-5-10	L	*Kemp, STANLEY W., B.A., D.S.C., F.R.S., F.R.A.S.B. 'Discovery Expedition', 52, Queen Anne Chambers, Dean Farrar Street, London, S.W. 1.
2-5-30	A	Kenny, DICK EDWARD COURTENAY, LT.-COL., I.A., <i>Deputy Commissioner, Tavoy.</i> Burma.
3-12-24	R	Khan, REZAUR RAHMAN, M.A., B.L., <i>Deputy President, Bengal Legislative Council.</i> 28, Convent Road, Entally, Calcutta.
6-5-25	R	Khanna, VINAYEK LAL, M.R.A.S., <i>Merchant.</i> 137F, Balaram Dey Street, Beadon Street P.O., Calcutta.
2-8-26	R	Khettry, BENIMADHO, <i>Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants.</i> 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (Ko-Shi), <i>Principal, College Department of Risho University.</i> Osaki Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER, B.S.C., <i>Inspector of Mines in India</i> Dhanbad, E.I.R.

Date of Election.		
4-11-35	R	Klebe, ANINA, née BRANDT, PH.D. (GREIFSWALD, GERMANY), <i>Psychologist</i> . 14/1, Sudder Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.), PH.D., <i>Lecturer in Ancient Indian History (Fine Arts)</i> , Calcutta University. 57, Ballygunge Circular Road, Calcutta.
3-9-34	R	Krishnan, K. S., D.SC., <i>Mahendralal Sircar Professor of Physics</i> , Indian Association for the Cultivation of Science. 210, Bowbazar Street, Calcutta.
6-11-33	A	Krishnan, M. S., M.A. (MADRAS), PH.D. (LOND.), A.B.C.S., D.I.C. (LOND.), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
2-4-28	R	Kumar, KUMAR KRISHNA, M.A., B.L., <i>Zemindar and Banker</i> . 31 & 31-1, Burtolla Street, Calcutta.
7-3-23	R	Labey, GEORGE THOMAS, M.C., <i>Bengal Pilot Service</i> . United Service Club, Calcutta.
4-2-35	R	Lal, RAM BIHARI, M.B., B.S., D.P.H., D.T.M. & H., D.B., <i>Professor of Vital Statistics and Epidemiology</i> , All-India Institute of Hygiene and Public Health. 21, Chittaranjan Avenue, Calcutta.
6-3-89	L	*La Touche, THOMAS HENRY DIGGES, M.A., F.G.S., F.R.A.S.B. 230, Hills Road, Cambridge, England.
5-2-34	R	Law, BHABANI CHURN, <i>Merchant, Zemindar and Artist</i> . 223, Cornwallis Street, Calcutta.
5-8-14	L	Law, BIMALA CHARAN, M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.
1-2-11	R	*Law, NARENDRA NATH, M.A., B.L., PH.D., F.R.A.S.B. 98, Amherst Street, Calcutta.
4-2-35	R	Law, PARBUTTY CHURN. 223, Cornwallis Street, Calcutta.
1-7-14	R	Law, SATYA CHURN, M.A., B.L., PH.D., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
7-6-26	R	Lemmon, RICHARD DENNIS, <i>Merchant</i> . c/o Messrs. Martin & Harris Ltd., 17, Prinsep Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN, K.C., <i>Barrister-at-Law, Judge, High Court</i> . 227/1, Lower Circular Road, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM, I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID, LT.-COL., I.M.S., M.D., B.OH., B.A.O., M.B.C.P., F.R.A.S.B. c/o The Standard Bank of S. Africa, Cradock, Cape Province, S. Africa.
1-3-26	R	McKay, JOHN WALLACE. c/o Messrs. Duncan Bros. & Co., Ltd., 101, Clive Street, Calcutta.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS, K.C.S.I., K.C.I.E., F.R.A.S.B. 39, Egerton Terrace, London, S.W. 3.
5-3-24	R	McPherson, JAMES. c/o Messrs. Begg Dunlop & Co., Ltd., 2, Hare Street, Calcutta.
7-6-16	N	Mahajan, SURYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C., M.A., B.SC., I.E.S., <i>Professor, Presidency College</i> . 210, Cornwallis Street, Calcutta.
1-3-11	R	Mahtab, SIR BIJAY CHAND, G.C.I.E., K.C.S.I., I.O.M., MAHARAJADHIRAJA BAHADUR OF BURDWAN. 2, Judges Court Road, Alipur, Calcutta.
3-2-30	N	Mahtab, UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan</i> . The Palace, Burdwan.
6-2-24	R	Mahindra, K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.

Date of Election.		
9-6-20	R	*Majumdar, NANI GOPAL, M.A., F.R.A.S.B. Archaeological Survey of India, Indian Museum, Calcutta.
2-2-16	R	Majumdar, NARENDRA KUMAR, M.A., <i>Professor, Calcutta University.</i> 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar, RAMESH CHANDRA, M.A., PH.D., <i>Professor, Dacca University.</i> Ramna, Dacca.
5-5-30	A	Mallam, G. L., CAPTAIN, I.A., <i>Census Superintendent.</i> Peshawar, N.-W.F.P.
4-11-29	R	Mallya, BANTWAL GANAPATHY, MAJOR, I.M.S., F.R.C.S.E. Civil Surgeon. Howrah.
7-9-36	N	Mandhata, H. C., M.A. (ALLAHABAD), <i>Teacher, formerly Lecturer in History, Agra College.</i> Ghaziabad, Meerut.
6-2-18	L	*Manen, JOHAN VAN, C.I.E., <i>Officier de l'Instruction Publique,</i> F.R.A.S.B. 6, Temple Chambers, 8, Old Post Office Street, Calcutta.
5-6-01	F	Mann, HAROLD HART, D.SC., M.SC., F.I.C., F.L.S. Woburn Experimental Station, Aspley Guise, Bedfordshire, England.
6-1-30	N	Martin, M. F. C., CAPT., R.E. c/o The Garrison Engineer, Mingladon, Burma.
5-5-30	A	Matthias, OWEN GARDINER, <i>Managing Director, Messrs. Smith Stanistreet & Co., Ltd.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
2-1-28	N	Mello, FROILANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India, Professor of Parasitology.</i> Nova Gôa.
5-11-84	L	*Middlemiss, CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.S., F.R.A.S.B. Aviemore, Crowborough, Sussex, England.
1-2-26	N	*Mills, JAMES PHILIP, I.C.S., M.A. (OXON), J.P., F.R.A.S.B., <i>Deputy Commissioner.</i> Kohima, Naga Hills, Assam.
5-6-12	N	Misra, CHAMPA RAM, B.A., RAI BAHADUR, PANDIT, <i>Diwan, Chhatarpur State.</i> Bundelkhand, C.I.
2-4-24	R	Mitra, J. C., M.A., B.L., <i>Retired Accountant-General, Bengal.</i> 1, Abinash Mitter Lane, Calcutta.
5-3-24	R	Mitter, THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law, Member, Bengal Executive Council.</i> 5, Outram Street, Calcutta.
5-4-26	R	Mitter, KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor, Presidency College (Retired).</i> 72/1, Bondel Road, Ballygunge, Calcutta.
30-9-35	R	Mitter, SUDHIR CHUNDER, <i>Barrister-at-Law.</i> 19, Camac Street, Calcutta.
7-12-36	R	Mittra, S. C. 34, Shampukur Street, Calcutta.
1-11-26	R	Modi, JAL R. K., B.A. 4, Camac Street, Calcutta.
5-3-34	R	Modi, JEHANGIR JEEVANJI JAMSHEDJI, <i>Merchant.</i> 5, Dhurumtollah Street, Calcutta.
7-12-36	R	Mookerjee, B. G. Bakulia House, Kidderpore, Calcutta.
5-11-24	R	Mookerjee, B. N., B.A. (CANTAB.), <i>Engineer.</i> 12, Mission Row, Calcutta.
2-7-24	R	Mookerjee, SYAMAPRASAD, M.A., B.L., D.LITT., <i>Vakil, High Court, Vice-Chancellor, Calcutta University.</i> 77, Asutosh Mookerjee Road, Calcutta.
5-4-37	N	Mooney, H. F., <i>Forest Adviser.</i> Shambalpur.
2-2-21	R	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., DOCTEUR-ES-LETTRES (PARIS). 3/1A, Raja Rajabullav Street, Calcutta.
5-12-27	R	Mukerjee, SUSIL KUMAR, F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals.</i> 1/1, Wood Street, Calcutta.

Date of Election.		
6-2-28	R	Mukerji, THE HON'BLE MR. JUSTICE MANMATHA NATH, KT., M.A., B.L., <i>Judge, High Court.</i> 8/1, Harsi Street, Calcutta.
3-3-30	N	Mukharji, ISAN CHANDRA, Rai Bahadur, Tazimi Sardar and Retired Member of Jaipur Council. Jaipur, Rajputana.
7-11-27	N	Mukherjee, DEVAPROSANNA, M.A., B.L., <i>Zemindar.</i> Burdwan.
2-8-26	R	*Mukherjee, JNANENDRA NATH, D.SC. (LONDON), F.C.S. (LONDON), F.R.A.S.B., <i>Fellow of the Indian Chemical Society ; Khaira Professor of Chemistry, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
5-7-37	R	Mukherjee, PANNALAL, RAI BAHADUR. Uttarpara. Hooghly.
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR, M.A., <i>Research Assistant, Calcutta University.</i> 27, Govinda Ghosal Lane, Bhawanipore, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD, M.A., B.L. 77, Asutosh Mookerjee Road North, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR, Director, Raja D. N. Mullick & Sons, Ltd. Colootola Rajbati, Chittaranjan Avenue, Calcutta.
6-8-34	R	Mullick, MANICK LALL, Landholder ; Honorary Magistrate, Sealdah. 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR, Zemindar and Landholder. 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLOBIAN OLIPHANT, A.I.M.M., F.G.S., <i>Mining Geologist and Engineer.</i> Tatanagar, B.N.Ry.
5-12-27	L	Namgyal, H.H. MAHARAJA SIR TASHI, K.C.I.E., <i>Maharaja of Sikkim.</i> Gangtok, Sikkim.
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA, M.A., M.L.C., <i>Zemindar.</i> Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HERDE, M.A., B.T., <i>Professor of History, Morris College.</i> Nagpur, C.P.
5-2-34	N	Nariman, RUSTOM, K., M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), <i>Professor of Engineering, Osmania University.</i> 'Gulistan', Sappers Lines, Secunderabad, Deccan.
5-3-28	R	Neogi, PANCHANAN, M.A., PH.D., I.E.S., <i>Professor of Chemistry, Presidency College.</i> 21, Kundu Lane, Belgachia, Calcutta.
3-11-30	A	Newman, CARL DAMIEN, M.B.B.S., D.T.M. & H., <i>District Medical Officer, E.B.Ry.</i> 2, Belvedere Park, Alipur, Calcutta.
3-12-24	N	Newman, CHAS. F., F.R.G.S., M.R.S.T., M.C.P. Ramnagar, Benares.
7-4-15	F	Ohtani, COUNT KOZUI. San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala, E. S. 52, Chowringhee, Calcutta.
5-2-34	R	Pasricha, CHIRANJI LAL, M.A., M.B., B.OHR. (CANTAB.), M.R.C.S. (ENG.), L.R.C.P. (LOND), <i>MAJOR, I.M.S., Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine.</i> 11, Rowland Road, Calcutta.
6-5-29	F	Pawsey, C. R., <i>Indian Civil Service.</i> c/o The Lloyds Bank, 6, Pall Mall, London, S.W. 1.

Date of Election.		
6-6-88	L	Pennell, AUBRAY PERCIVAL, B.A., Barrister-at-Law. Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival, FREDERICK GEORGE, PH.D. (LOND.), F.G.S., General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co. Jamshedpur.
1-4-25	R	Perier, FERDINAND, S.J., Most Reverend the Archbishop of Calcutta. 32, Park Street, Calcutta.
3-2-30	A	Pettigrew, REV. WILLIAM, Missionary. American Baptist Foreign Mission Society, P.O. Kangpokpi, Manipur, Assam.
3-4-18	L	*Prashad, BAINI, D.SC., F.Z.S., F.R.S.E., F.R.A.S.B., Director, Zoological Survey of India. Indian Museum, Calcutta.
3-8-25	N	Pruthi, HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), Imperial Entomologist, Imperial Institute of Agricultural Research. Pusa, Darbhanga.
3-12-24	R	Pushong, E. S., M.D., L.S.A., Medical Practitioner. 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman, SHAH KALIMUR, M.A., Lecturer in Arabic and Persian, Calcutta University. 51, Baitakhana Road, Calcutta.
7-9-36	N	Ram, DAULAT, Accountant, Military Secretary's Office. c/o Messrs. Biru Mal Chiranji Lal, Chhatta Magni Ram, Patiala.
6-4-36	R	Rankin, EVERETT H., M.B., Assistant General Manager for India, The Standard Vacuum Oil Co. 6, Durgapore Park, Alipore, Calcutta.
6-8-34	R	Rao, U. SHANKER, Bengal Pilot Service. 83, Chowringhee, Calcutta.
1-2-26	N	Rao, Y. RAMACHANDRA, RAO SAHIB, M.A., F.E.S., Locust Research Entomologist. McLeod Road, Karachi.
2-7-24	N	Ray, ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	R	Ray, HEM CHANDRA, M.A., PH.D. (LONDON). P.39A, Manicktollah Spur, Calcutta.
5-1-21	N	Ray, JAGADISNATH, MAHARAJA, Maharaja of Dinajpore. Dinajpore.
5-3-90	R	*Ray, SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.R.A.S.B. University College of Science, 92, Upper Circular Road, Calcutta.
5-11-28	L	Reinhart, WERNER, Merchant. c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.
2-4-24	F	Richards, F. J., I.C.S. 6, Lexham Gardens, London, W. 8.
5-2-34	R	Richter, HERBERT, DR. JUR., Vice-Consul for Germany. 26, Lee Road, Calcutta.
1-4-29	N	Rizvi, SYED HAMID HUSAIN, Excise Sub-Inspector. Mohalla Sanechri, Near Musjid of Munshi Sk. Ghassu, Saugor, C.P.
3-12-24	L	Roerich, GEORGE NICHOLAS, M.A., M.R.A.S., Orientalist. 310, Riverside Drive, New York, U.S.A. ('Urusvati' Nagar, Kulu, Punjab).
2-7-28	L	Roerich, NICHOLAS, Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter. 310, Riverside Drive, New York, U.S.A.
4-12-01	F	*Ross, SIR EDWARD DENISON, KT., C.I.E., PH.D., F.R.A.S.B., Director, School of Oriental Studies. Finsbury Circus, London, E.C. 2.

Date of Election.		
5-6-33	R	Rossetti, FELIX FRANCIS LEO , <i>Secretary, Y.M.C.A.</i> 42, Corporation Street, Calcutta.
6-12-26	R	Roy, A. K. , <i>Barrister-at-Law, Advocate-General, Bengal.</i> 3, Upper Wood Street, P.O. Theatre Road, Calcutta.
5-4-37	N	Roy, DAVID , <i>Assam Civil Service.</i> Shillong.
1-12-30	N	Roy, KUMAR KAMALRANJAN, B.A. , <i>Zemindar.</i> Kashim bazar Post, Dt. Murshidabad.
4-3-35	R	Roy, SAILESWAR SINGH , <i>Landholder.</i> 15, Lansdowne Road, Calcutta.
6-8-24	N	Roy-Chowdhury, BRAJENDRA KISHORE , <i>Zemindar.</i> (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.
7-5-28	N	*Saha, MEGH NAD, D.SC., F.R.S., F.R.A.S.B. , <i>Professor of Physics, University of Allahabad.</i> Katra, Allahabad.
5-11-24	N	*Sahni, B., M.A., SC.D. (CANTAB.) , D.SC., F.G.S., F.R.A.S.B., <i>Professor of Botany.</i> The University, Lucknow.
5-4-37	R	Sahni, M. R. Geological Survey of India, 27, Chowringhee, Calcutta.
5-2-34	L	Sale, HAROLD MONTAGUF, M.A., F.G.S. Mancatter Cottage, Atherstone, Warwickshire, England.
3-12-24	R	Sarkar, C. K., C.E. , <i>Engineer and Architect.</i> 10, Hastings Street, Calcutta.
4-2-35	R	Sarkar, NALINI RANJAN. Hindusthan Buildings, Corporation Street, Calcutta.
5-4-37	R	Sattar, The Hon'ble Mr. A. R. H. A. , <i>Member, Council of State.</i> 32, Ezra Street, Calcutta.
4-2-35	N	Sayeeduddin, MOHAMMED, B.SC., M.A. (EDIN.) , F.R.M.S., F.F.S.C., <i>Professor of Botany, Osmania University.</i> Hyderabad, Deccan.
6-3-33	R	Seal, SATIS CHANDRA, M.A., B.L. , <i>Honorary Secretary, Indian Research Institute.</i> 55, Upper Chitpore Road, Calcutta.
5-2-34	A	Selzam, EDWART VON , <i>German Diplomatic Service. Consulate-General for Germany.</i> 26, Lee Road, Calcutta.
1-4-25	R	Sen, BENOY CHANDRA, M.A. 'Rupeswar', Diamond Harbour Road, Behala.
7-12-36	R	Sen, DHIRENDRA NATH. <i>Merchant and Landlord.</i> 7, Rawdon Street, Calcutta.
3-12-24	N	Sen, H. K., M.A., D.SC. (LONDON) , D.I.C. Indian Lac Research Institute, Ranchi.
1-6-36	R	Sen, JITENDRO MOHAN, M.ED., B.SC., F.R.G.S., F.N.I. , <i>Assistant Director of Public Instruction, Bengal.</i> 63, Lansdowne Road, Calcutta.
5-4-37	N	Sen, K. M., VISVABHARATI , Shantiniketan, Dist. Birbhum.
5-12-23	L	Sen, LAKSHMAN, H.H. RAJA OF SUKET. Suket State, Punjab.
1-4-29	R	Sen-Gupta, NARES CHANDRA, M.A., D.L. , <i>Advocate, High Court.</i> 36, Girish Mukherjee Road, Bhawanipore, Calcutta.
5-4-26	R	Senior-White, RONALD, F.R.S., F.R.S.T.M. & H. , <i>Malariaologist.</i> 5, Godfrey Mansions, Garden Reach, Calcutta.
1-12-97	R	Seth, MESROBE JACOB, M.R.A.S., M.S.A., F.R.S.A. , <i>Examiner in Classical Armenian to the Calcutta University.</i> 9, Marsden Street, Upper Flat, Calcutta.
5-7-11	L	*Sewell, ROBERT BERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.) , M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.R.A.S.B., LT.-COL., I.M.S., <i>Late Director, Zoological Survey of India.</i> 18, Barrow Road, Cambridge, England.

Date of Election.		
5-4-37	N	Sharaf-ud-din , S. Chittagong College, Chittagong.
2-11-25	A	Sharif , MOHAMMAD, D.SC., F.R.M.S., F.L.S., <i>Lecturer in Zoology</i> . Muslim University, Aligarh.
6-5-29	N	Sharma , SRI RAM, M.A., M.R.A.S., M.A.O.S., <i>Professor of History</i> . D.A.V. College, Lahore.
5-8-35	N	Shattock , JOHN SWITHIN HARVEY, B.A. (OXON), I.C.S., Defence D. partment, New Delhi.
2-5-23	N	Shebbeare , E. O., <i>Conservator of Forests</i> . Darjeeling.
6-1-09	N	Shirreff , ALEXANDER GRIERSON, B.A., I.C.S. <i>Commissioner</i> , Gorakhpur. U.P.
6-3-01	N	*Shirwani , NAWAB HABIB-UR-RAHMAN, F.R.A.S.B., <i>Rais</i> , Bhikampur. Habibganj, District Aligarh.
4-1-26	N	Shortt , H. E., LT.-COL., I.M.S., <i>Director</i> , King's Institute, Guindy. Madras.
6-2-28	L	Shumser JUNG BAHADUR RANA , SIR KAISER, K.B.E., SUPRADIPTA MANYAVARA, LIEUT.-GENERAL, <i>Nepalese Army</i> . Kaiser Mahal, Kathmandu, Nepal.
5-2-02	N	Shyam Lal , LALA, M.A., LL.B. Nawabganj, Cawnpore, U.P.
4-11-29	R	Siddiqi , MOHAMMAD ZUBAYR, M.A., PH.D., <i>Sir Asutosh Professor of Islamic Culture</i> , Calcutta University. P. 274, Bright Street, Park Circus, Calcutta.
5-3-13	L	*Simonsen , JOHN LIONEL, D.SC., F.I.C., F.R.A.S.B. University College of North Wales, Bangor, North Wales.
6-2-18	N	Singh , MANYABARA BADA KAJI MARICHI MAN, PANDITJI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	A	Singh , JAIPAL, M.A. (<i>Modern Greats</i>), St. John's College, Oxford University. Achimota College, Accra, West Africa.
5-3-34	L	Singh , HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR, K.C.I.E. Darbhanga.
2-1-33	N	Singh , RUDRA PEE TAB, RAO BAHADUR, <i>Proprietor</i> , Sonbarsa Raj. Sonbarsa P.O., District Bhagalpore.
4-2-35	N	Singh , SARABJIT, M.A., B.L. P.O. Imphal, Manipur State.
3-6-35	R	Singhanla , RAGHUNATH PRASAD, VIDYABHUSAN-VISARAD, <i>Secretary, Rajasthan Research Society</i> . 27, Baranoshi Ghose Street, Simla, Calcutta.
7-9-36	R	Singh Roy , THE HON'BLE SIR BIJAY PRASAD, KT., <i>Minister, Government of Bengal</i> . 15, Lansdowne Road, Calcutta.
5-9-12	R	Singhi , BAHADUR SINGH. (Azimganj, Murshidabad.) 48, Gariahat Road, Calcutta.
7-8-33	N	Sinh , RAGHUBIR, RAJKUMAR, M.A., LL.B., <i>Heir-Apparent of Sitamau State</i> . Raghunir Niwas, Sitamau, C.I.
7-9-36	N	Sinha , JADUNATH, M.A., PH.D., <i>Premchand Roychand Scholar, Professor of Philosophy</i> , Meerut College. Meerut, U.P.
7-5-28	F	Sinha , LORD, OF RAIPUR. Queen Anne Mansions, St. James' Park, London.
6-6-27	N	Sinha , SHEONANDAN PRASAD, M.B., <i>Assistant Surgeon</i> . Government Hospital, Jamshedpur.
6-2-28	R	Sinha , SUHRID CHANDRA, KUMAR, M.SC. 18, Ananda Lane, P.O. Shambazar, Calcutta.
4-1-26	N	Sinton , J. A., O.B.E., LT.-COL., I.M.S., V.C., <i>Officer-in-Charge</i> , Malaria Bureau. Central Research Institute, Kasauli.
5-7-16	L	Sircar , GANAPATI, VIDYARATNA. 69, Beliaghata Main Road, Calcutta.

Date of Election.		
5-3-24	N	Sircar, THE HON'BLE SIR NRIPENDRA NATH, K.C.S.I., KT., M.A., B.L., <i>Barriester-at-Law, Law Member, H.E. The Viceroy's Executive Council.</i> New Delhi.
5-3-24	R	Sircar, SIR NIL RATAN, KT., M.A., M.D., <i>Physician.</i> 7, Short Street, Calcutta.
5-8-29	R	Sommerfeld, ALFRED, <i>Merchant.</i> o/o Mousell & Co., Mercantile Buildings, Lall Bazar, Calcutta.
3-9-34	R	Sondhi, VED PALL, M.SC., F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
7-3-27	R	Stagg, M., LT.-COL., R.E., O.B.E., <i>Master, H.M.'s Mint.</i> 47, Strand Road, Calcutta.
7-3-23	F	Stamp, L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.
4-1-26	N	Stapleton, GRACE (Miss), M.D., B.S. (LONDON). Dufferin Hospital, Delhi.
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., D.LITT., F.R.A.S.B., <i>Late Director of Public Instruction, Bengal.</i> St. Brelade, Jersey, C.I, England.
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., <i>Director of Public Instruction.</i> Madras.
6-5-25	R	Staub, MAX, <i>Consul for Switzerland.</i> 100, Clive Street, Calcutta.
1-11-22	A	Strickland-Anderson (Mrs.). 1, Alipur Park, Calcutta.
5-4-37	R	Sufi, M. E. L.R.C.P.E., D.P.H., 8/A/1, Elliott Lane, Calcutta.
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., <i>Chief Medical Officer, E.B. Ry., late Vice-Chancellor, Calcutta University.</i> 3, Suhrawardy Avenue, Park Circus, Calcutta.
3-3-20	N	Sundararaj, BUNGURU, M.A., PH.D., <i>Director of Fisheries.</i> Chepauk, Madras.
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, <i>Major-General in the Nepalese Army.</i> Singha Darbar, Kathmandu, Nepal.
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT, MAHARAJA BAHADUR. "Tagore Castle", 12, Prasanna Coomar Tagore Street, Calcutta.
7-11-27	R	Tarkatirtha, BIMALANANDA, Kaviraj, Pundiubhusan, Byakaranatirtha. 90/3, Grey Street, Calcutta.
31-8-93	L	Tate, GEORGE PASSMAN. 56, Cantonment, Bareilly, U.P.
2-12-29	A	Thomas, H. W., F.C.S., M.P.S., <i>Senior Partner and Chairman of the Managing Directors, Messrs. Smith Stanistreet & Co.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.R.A.S.B. 'The Laurels', Glebe Road, Cambridge, England.
7-5-28	F	Tucci, GUISEPPE, PH.D., <i>Late Professor of Religions and Philosophy of India and the Far East, University of Rome ; Professor of Chinese, University of Naples.</i> Naples, Italy.
5-7-26	A	Tyson, JOHN DAWSON, O.B.E., M.A. (OXON), I.C.S., J.P., <i>Late Private Secretary to H.E. the Governor of Bengal.</i> Government House, Calcutta.
3-9-34	R	Ulser, M. E. M. M., <i>Consul-General for Belgium.</i> 9, Pretoria Street, Calcutta.

Date of Election.		
4-7-27	N	Vance, R. L., M.B., B.C.H., B.A.O. (DUB.), L.M. (ROT.), MAJOR, I.M.S., <i>Officiating Chief Medical Officer, Western India States Agency</i> . Rajkot, Kathiawar.
4-1-37	R	Vedanta-tirtha, N. C. 90, Lower Circular Road, Calcutta.
7-8-33	R	Vedantatirtha, VANAMALI, M.A., <i>Formerly Professor, Cotton College, Gauhati</i> . 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.
6-6-32	R	Vere-Hodge, Mrs. E. H., <i>Author</i> . 9/4, Middleton Row, Calcutta.
5-7-05	R	Vidyabhushan, AMULYA CHARAN. Vangiya Mahakosha, 5, Jadu Mitter Lane (North), Shambazar, Calcutta.
1-2-32	R	Visser, DR. PH. C., <i>Consul-General for the Netherlands</i> . E-1. Clive Buildings, Clive Street, Calcutta.
6-3-01	L	*Vogel, JEAN PHILIPPE, LITT.D., F.R.A.S.B. Noordeindsplein, 4a, Lieden, Holland.
27-9-94	L	Vost, WILLIAM, LT.-COL., I.M.S. Leicester Lodge, 1, Medina Villas, Hove, Sussex, England.
6-5-25	R	*Wadia, D. N., M.A., B.SC., F.R.G.S., F.R.A.S.B., <i>Geological Survey of India</i> . 27, Chowringhee, Calcutta.
5-3-28	A	Waight, HARRY GEORGE, B.A. (OXON and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge</i> . Burdwan.
2-5-27	A	Watson, SIR ALFRED HENRY, KT., <i>Late Editor, The 'Statesman', Calcutta</i> . England.
2-2-31	A	Wauchope, R. S., O.B.E., A.I.C.E., F.R.A.I., MAJOR, I.A. 8, Park Chambers, 93, Park Street, Calcutta.
6-2-33	N	Wellsted, THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., <i>Mining Engineer</i> . Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	R	West, WILLIAM DIXON, M.A. (CANTAB.), <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
1-11-26	R	Westcott, FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), <i>Lord Bishop of Calcutta and Metropolitan of India, Burma and Ceylon</i> Bishop's House, 51, Chowringhee, Calcutta.
6-4-36	R	White, JOHN CAMPBELL, <i>American Consul-General</i> . 9, Esplanade Mansions, Calcutta.
19-9-06	L	*Whitehead, RICHARD BERTRAM, F.R.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams, HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMB.), <i>Chaplain of Barrackpore</i> . Barrackpore.
7-9-36	R	Williams, N. T. Messrs. Orr, Dignam & Co., 32, Dalhousie Square, Calcutta.
6-2-28	F	Williams, T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts., England.
5-4-37	F	Wolfenden, S. N. Beverly Hills, California, U.S.A.
1-4-08	R	Wordsworth, WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.). c/o The "Statesman", Chowringhee Square, Calcutta.
7-3-27	N	Wright, FREDERIC MAITLAND, <i>Broker</i> . Post Box No. 72, Bombay.
5-2-19	N	*Yazdani, GHULAM, M.A., F.R.A.S.B., <i>Epigraphist to the Government of India for Persian and Arabic Inscriptions, Hyderabad</i> . Archaeological Survey, Hyderabad, Deccan.

ORDINARY MEMBERS.

(Chronological.)

1884.			
Nov.	5.	Middlemiss, C. S.	
1887.			
Aug.	25.	Criper, W. R.	
1888.			
June	6.	Pennell, A. P.	
1889.			
Mar.	6.	La Touche, T. H. D.	
1890.			
5 Mar.	5.	Ray, Sir Prafulla C.	
<hr/>			
1892.			
Jan.	11.	MacLagan, Sir Edward D.	
Feb.	1.	Bodding, P. O.	
1893.			
Aug.	31.	Tate, G. Passman	
1894.			
Sept.	27.	Vost, W.	
1895.			
10 Sept.	19.	De, K. C.	
1896.			
Jan.	8.	Burn, Sir Richard	
1897.			
Dec.	1.	Soth, M. J.	
1898.			
Jan.	5.	Dods, W. K.	
April	6.	Tagore, Sir Pradyot C.	
1900.			
15 Dec.	5.	Grieve, J. W. A.	
<hr/>			
1901.			
Mar.	6.	Shirwani, Nawab Habib-ur-Rahman	
"	"	Vogel, J. P.	
June	5.	Mann, H. H.	
Dec.	4.	Ross, Sir Edward D.	
1902.			
20 Feb.	5.	Shyam Lal.	
July	2.	Doxey, F.	
1904.			
June	1.	Tipper, G. H.	
Aug.	3.	Fermor, Sir L. L.	
"	"	Stapleton, H. E.	

1905.			
July	5.	Vidyabhusana, A. C.	25
Aug.	2.	McCay, D.	
1906.			
Jan.	3.	Chapman, J. A.	
Sept.	19.	Whitehead, R. B.	
Oct.	31.	Finlow, R. S.	
1907.			
July	3.	Brown, J. C.	30
"	"	Christie, W. A. K.	
1908.			
Jan.	1.	Brahmachari, Sir U. N.	
April	1.	Wordsworth, W. C.	
1909.			
Jan.	6.	Shirreff, A. G.	
April	7.	Bentley, C. A.	35
July	7.	Bazaz, R. K.	
Oct.	6.	Brown, P.	
"	"	Gangoli, O. C.	
Nov.	3.	Christophers, Sir S. R.	
1910.			
May	4.	Dhavle, S. B.	40
"	"	Kemp, S. W.	
Sept.	7.	Gravely, F. H.	
<hr/>			
1911.			
Feb.	1.	Insch, J.	
"	"	Law, N. N.	
Mar.	1.	Mahtab, Sir Bijay Chand	45
June	7.	Chatterjee, K. K.	
"	"	Hosain, M. H.	
July	5.	Sewell, R. B. S.	
Nov.	1.	Ahmed, K.	
<hr/>			
1912.			
May	1.	Harley, A. H.	50
June	5.	Misra, C.	
July	3.	Andrews, E. A.	
Sept.	4.	Ghosh, T.	
"	"	Singhi, B. S.	

1913.				
55	Mar.	5.	Simonsen, J. L.	
	April	2.	Calder, C. C.	
	June	4.	Majumdar, R. C.	
	Nov.	5.	Fox, C. S.	

1914.				
	Mar.	4.	Bacot, J.	
60	April	1.	Chaudhuri, G. D.	
	July	1.	Law, S. C.	
	Aug.	5.	Law, B. C.	

1915.				
	April	7.	Ohtani, Count K.	
	Aug.	4.	Gurner, C. W.	
65	Sept.	1.	Cleghorn, M. L. W.	
	Oct.	27.	Chatterjee, Sir A. C.	

1916.				
	Feb.	2.	Majumdar, N. K.	
	June	7.	Mahajan, S. P.	
	July	5.	Sarkar, G.	

1917.				
70	April	4.	Awati, P. R.	
	"	"	Aiyangar, K. V. R.	
	Aug.	1.	Bhandarkar, D. R.	

1918.				
	Feb.	6.	Banerji, N. N.	
	"	"	Manen, Johan van.	
75	"	"	Singh, B. M.	
	April	3.	Prashad, B.	

1919.				
	Feb.	5.	Yazdani, G.	
	Mar.	5.	Gupta, S. P.	
	Nov.	5.	Hemraj, R.	

1920.				
80	Mar.	3.	Mahalanobis, P. C.	
	"	"	Sundara Raj, B.	
	June	2.	Suhrawardy, Sir H.	
	"	"	Majumdar, N. G.	
	Aug.	4.	Dikshit, K. N.	
85	Sept.	1.	Chakladar, H. C.	
	"	"	Chanda, R. P.	
	"	"	Chatterjee, N. C.	
	Dec.	"	Akbar Khan, Sir M.	

1921.				
	Jan.	5.	Ray, J. N.	
90	Feb.	2.	Jain, Chhote Lall	
	"	2.	Mukerjee, R. P.	

Feb.	2.	Mookerjee, S. C.	
Mar.	2.	Agharkar, S. P.	
Sept.	7.	Ray, H. C.	
Nov.	2.	Hora, S. L.	95

1922.				
Feb.	1.	Bhattacharya, V. S.		
"	"	Chopra, R. N.		
April	5.	Abdul Ali, A. F. M.		
Nov.	1.	Strickland-Anderson, Mrs.		

1923.				
Mar.	7.	Labey, G. T.	100	
"	"	Stamp, L. D.		
May	2.	Shebbeare, E. O.		
June	6.	Howard, Sir A.		
"	"	Hutton, J. H.		
Aug.	1.	Biswas, K. P.	105	
Dec.	5.	Chopra, B. N.		
"	"	Barwell, N. F.		
"	"	Sen, H. H. Lakshman		

1924.				
Feb.	6.	Mahindra, K. C.		
Mar.	5.	Banerjee, P. N.	110	
"	"	Mitter, Sir B. L.		
"	"	McPherson, J.		
"	"	Sircar, Sir N. N.		
"	"	Sircar, Sir N. R.		
April	2.	Bahl, K. N.	115	
"	"	Ghose, K.		
"	"	Richards, F. J.		
"	"	Haq, M. M.		
"	"	Mitra, J. C.		
May	7.	Bhattacharya, B.	120	
July	2.	Ray, A. C.		
"	"	Mookerjee, S. P.		
Aug.	6.	Chatterji, S. K.		
"	"	Roy-Chowdhury, B. K.		
"	"	Davies, L. M.	125	
Nov.	5.	Chattopadhyay, K. P.		
"	"	Sahni, B.		
"	"	Mookerji, B. N.		
Dec.	3.	Newman, C. F.		
"	"	Pushong, E. S.	130	
"	"	Rogers, T. E.		
"	"	Basu, J. N.		
"	"	Ghose, S. C.		
"	"	Sarkar, C. K.		
"	"	Roerich, G. N.		
"	"	Sen, H. K.	135	
"	"	Khan, R. R.		

1925.				
Feb.	4.	Guha, B. S.		
Mar.	4.	Benthall, Sir E. C.		
"	"	Das, A. N.	140	

	Mar.	4.	Deb, K.	
	April	1.	Perier, F.	
	"	"	Hobbs, H.	
	"	"	Sen, B. C.	
	May	6.	Jatia, Sir O. M.	
145	"	"	Khanna, V. L.	
	"	"	Staub, Max.	
	"	"	Wadia, D. N.	
	July	6.	Bose, M. M.	
	Aug.	3.	Pruthi, H. S.	
150	Nov.	2.	Acharya, P.	
	"	"	Chattopādhyāya, K. C.	
	"	"	Crookshank, H.	
	"	"	Kimura, R.	
	"	"	Sharif, M.	

1926.

155	Jan.	4.	Shortt, H. E.	
	"	"	Sinton, J. A.	
	"	"	Stapleton, G. (Miss)	
	Feb.	1.	Rao, Y. R.	
	"	"	Ghuznavi, Sir A. K.	
160	"	"	Hingston, H.	
	"	"	Harris, H. G.	
	"	"	Ghuznavi, A. H.	
	Mar.	1.	McKay, J. W.	
	"	"	Datta, H. N.	
165	"	"	Basu, N. K.	
	"	"	Kramrisch, Stella	
	"	"	Bagnall, J. F.	
	April	5.	Senior-White, R.	
	"	"	Ghose, B. C.	
170	"	"	Bhatia, M. L.	
	"	"	Mitter, K. N.	
	June	7.	Lemmon, R. D.	
	July	5.	Mukhopadhyaya, P. K.	
	"	"	Tyson, J. D.	
175	"	"	Lyne, H. W.	
	Aug.	2.	Mukherjee, J. N.	
	"	"	Khettry, B.	
	Nov.	1.	Jameson, T. B.	
	"	"	Modi, J. R. K.	
180	"	"	Westcott, F.	
	"	"	Mills, J. P.	
	"	"	Galstaun, S.	
	"	"	Bagchi, P. C.	
	Dec.	6.	Aiyangar, S. K.	
185	"	"	Roy, A. K.	

1927.

	Jan.	3.	Chakravarty, N.	
	"	"	Bivar, H. G. S.	
	Feb.	7.	Chatterjee, A.	
	Mar.	7.	Hopkinson, A. J.	
190	"	"	Bake, A. A.	
	"	"	Stagg, M.	
	"	"	Ghosh, P. N.	
	"	"	Abdul Kadir, A. F. M.	

	Mar.	7	Fukushima, N.	
	"	"	Wright, F. M.	195
	May	2.	Watson, Sir A. H.	
	June	6.	Nandi, Maharaja S. C.	
	"	"	Jain, R.	
	"	"	Sinha, S. P.	
	July	4.	Chatterjee, P. P.	200
	"	"	Chakravarti, C.	
	"	"	Vance, R. L.	
	Nov.	7.	Tarkatirtha, B.	
	"	"	Mukherji, D.	
	"	"	Brahmachary, S. C.	205
	Dec.	5.	Namgyal, H.H. Sir Tashi	
	"	"	Dechhen, H.H. Kun-zang	
	"	"	Chowdhury, Sir C.	
	"	"	Mukerjee, S. K.	

1928.

	Jan.	2.	Basu, N. M.	210
	"	"	Mello, F. de	
	Feb	6.	Sinha, S. C.	
	"	"	Ezra, Sir D.	
	"	"	Mukerji, Sir M. N.	
	"	"	Williams, T. T.	215
	"	"	Shumsher, Sir Kaiser	
	Mar.	5.	Waight, H. G.	
	"	"	Gooptu, D. N.	
	"	"	Neogi, P.	
	"	"	Biswas, C. C.	220
	"	"	Eberl, Otto	
	April	2.	Mullick, K. C.	
	"	"	Kumar, K. K.	
	"	"	Chowdhury, Rai J. N.	
	"	"	Harris, L. E.	225
	May	7.	Chatterji, K. N.	
	"	"	Chatterjee, Sir N. R.	
	"	"	Tucci, G.	
	"	"	Murray, E. F. O.	
	"	"	Ghosal, U. N.	230
	"	"	Lord Sinha of Raipur	
	"	"	Saha, M. N.	
	June	4.	Bhadra, S. N.	
	"	"	Bhattachali, N. K.	
	July	2.	Roerich, N.	235
	Aug.	6.	Jaitly, P. L.	
	"	"	Ghuznavi, I. S. K.	
	"	"	Heron, A. M.	
	Nov.	5.	Olpadvala, E. S.	
	"	"	Statham, R. M.	240
	"	"	Reinhart, W.	
	"	"	Galstaun, J. C.	

1929.

	Jan.	7.	Ghose, M. C.	
	Feb.	4.	Narain, Hirde	
	"	"	Jenkins, W. A.	245

	Mar.	4.	De, J. C.
	"	"	Mullick, P. N.
	April	1.	Ghose, D. P.
250	"	"	Rizvi, S. H. H.
"	"	"	Sen-Gupta, N. C.
	May	6.	Sharma, S. R.
	"	"	Williams, H. F. F.
	"	"	Pawsey, C. R.
	July	1.	Dunn, J. A.
255	Aug.	5.	Sommerfeld, A.
	Nov.	4.	Singh, J.
	"	"	Cotter, G. de P.
	"	"	-Campbell, G. R.
	"	"	Edwards, L. B.
260	"	"	Siddiqi, M. Z.
	"	"	Mallya, B. G.
	Dec.	2.	Fawcus, L. R.
	"	"	Thomas, H. W.

1930.

	Jan.	6.	Jain, N. K.
265	"	"	Haldar, S. K.
	"	"	Hamilton, Sir D. M.
	"	"	Martin, M. F. C.
	"	"	Chakraverti, S. C.
	Feb.	3.	Mahtab, U. C.
270	"	"	Pettigrew, W.
	"	"	Chakravarti, M. N.
	Mar.	3.	Mukharji, I. C.
	"	"	Ashton, H. S.
	May	5.	Deo, Sir P. C. Bhanj
275	"	"	Matthias, O. G.
	"	"	Mallam, G. L.
	"	"	Cooper, G. A. P.
	June	2.	Kenny, D. E. C.
	Nov.	3.	Austin, G. J.
280	"	"	Rahman, S. K.
	Nov.	"	Newman, C. D.
	Dec.	1.	Roy, K. K.

1931.

	Jan.	5.	Chatterji, D.
	"	"	Evans, P.
285	Feb.	2.	Wauchope, R. S.
	"	"	Douglas, G. W.
	"	"	Clough, J.
	Mar.	2.	Bose, S. K.
	April	6.	Bhose, J. C.
290	May	4.	Bottomley, J. M.
	June	1.	Lort-Williams, Sir J.
	Aug.	3.	Barua, K. L.

1932.

	Feb.	1.	Holme, J. W.
	"	"	Visser, Ph. C.
295	Mar.	7.	Hughes, A.
	"	"	Chakraborty, K. B.
	"	"	Darbari, M. D.

	June	6.	Vere-Hodge, Mrs. E. H.
	Nov.	7.	Suvarna Shumser
	"	"	Driver, D. C.
	Dec.	5.	Dutt, N.
	"	"	Boyle, C. A.

1933.

	Jan.	2.	George, J.
	"	"	Dutch, R. A.
	"	"	Singh, R. P.
	Feb.	6.	Wellsted, T. A.
	"	"	Ghatak, J. C.
	"	"	West, W. D.
	Mar.	6.	Seal, S. C.
	June	5.	Chakravarti, S. K.
	"	"	Rossetti, F. F. L.
	July	3.	Dutt, G. S.
	Aug.	7.	Sinh, Raghubir
	"	"	Vedantatirtha, V.
	Nov.	6.	Kavyatirtha, R. D.
	"	"	Krishnan, M. S.
	"	"	Coulson, A. L.

1934.

	Jan.	1.	Ahmad, M. J.
	Feb.	5.	Bhuyan, S. K.
	"	"	Haldar, B. V.
	"	"	Kirby, W.
	"	"	Law, B. C.
	"	"	Nariman, R. K.
	"	"	Pasricha, C. L.
	"	"	Percival, F. G.
	"	"	Richter, H.
	"	"	Sale, H. M.
	"	"	Selzam, E. von
	Mar.	5.	Craddock, Sir W. M.
	"	"	Modi, J. J. J.
	"	"	Singh, H. H. Sir K.
	May	7.	Bent, W. A.
	June	4.	Chatterji, B. R.
	Aug.	6.	Husain, S. A.
	"	"	Mullick, M. L.
	"	"	Rao, U. S.
	Sep.	3.	Auden, J. B.
	"	"	Krishnan, K. S.
	"	"	Sondhi, V. P.
	"	"	Ulser, M. E. M. M.
	Nov.	5.	Gee, E. R.
	"	"	Hosain, Prince
	"	"	A. M. M. M. A.
	"	"	Dey, M.
	Dec.	3.	Burt, Sir B. C.
	"	"	Brahmachari, P. N.
	"	"	Chatterjee, S. C.

1935.

	Feb.	4.	Singh, S.
	"	"	Sayeeduddin, M.
	"	"	Sarkar, N. R.

350	Feb. 4	Law, P. C.	
	" "	Lal, R. B.	
	Mar. 4	Roy, S. Singh.	
	" "	Jack, Hon. Justice R. E.	
	" "	Groth, E. M.	
355	June 3	Singhanian, R. P.	
	Aug. 5	Shattock, J. S. H.	
	Sep. 30	Dutt, M. N.	
	" "	Basu, S. K.	
	" "	Mitter, S. K.	
360	" "	Howland, F.	
	Nov. 4	Bor, N. L.	
	" "	Anina Klebe.	
	" "	Hirtzel, M. A. F.	
	" "	Chaudhuri, S. N.	

1936.

	Jan. 6	Anderson, Rt. Hon. Sir John.	
365	" "	Berkeley-Hill, Owen A. R.	
	" "	Brocke, A. G.	
	Feb 3	Ahmad, Alfazuddin.	
	" "	Catto, Sir T. S.	
370	" "	Flury, E. C.	
	Mar. 2	Chatterji, M.	
	" "	Chatterji, Mrs. T.	
	April 6	Rankin, E. H.	
	" "	White, J. C.	
375	May 4	Husain, S. A.	
	June 1	Sen, J. M.	
	Sep. 7	Bagchi, K. N.	
	" "	Gangooly, P. L.	

Sep. 7	Mandhata, H. C.	
" "	Ram, D.	380
" "	Singh Roy, Hon. Sir B. P.	
" "	Sinha, J.	
" "	Williams, N. T.	
" "	Ghosh, J.	
Nov. 2	Bothra, S.	385
Dec. 7	Daga, M.	
" "	Sen, D. N.	
" "	Mookerjee, B. G.	
" "	Mitra, S. C.	
" "	Gillespie, A. D.	390
" "	Ghosal, S. M.	
" "	Bose, A. N.	
" "	Basu, I. B.	
" "	Banerjee, S. M.	

1937.

Jan. 4	Vedanta-tirtha, N. C.	395
" "	Ahmad, S.	
April 5	Asari, J. R.	
" "	Gupta, Miss K. K.	
" "	Mooney, H. F.	
" "	Wolfenden, S. N.	400
" "	Sufi, M. E.	
" "	Sharaf-ud-din, S.	
" "	Sen K. M.	
" "	Sattar, A. H.	
" "	Sahni, M. R.	405
" "	Rey, D.	
July 5	Mukherjee, P.	
Sep. 6	Durniz-Podwils, Count.	

LIFE MEMBERS.

(Chronological.)

5-11-84	C. S. Middlemiss (30 N.).	5- 3-13	J. L. Simonsen (19 N.).	
6- 6-88	A. P. Pennell (88 F.).	4- 3-14	J. Bacot (14 F.).	
6- 3-89.	T. H. D. La Touche (10 N.).	5- 8-14	B. C. Law (33 R.).	30
11- 1-93	Sir Edward D. Maclagan (94 R.).	5- 7-16	G. Siroar (29 N.).	
5 1- 2-93	P. O. Bodding (14 N.).	6- 2-18	Johan van Manen (25 R.).	
31- 7-93	G. P. Tate (23 N.).	3- 4-18	B. Prashad (29 R.).	
27- 9-94	W. Vost (94 F.).	2-11-21	S. L. Hora (30 N.).	
19- 9-95	K. C. De (26 R.).	6- 6-23	Sir A. Howard (30 N.).	35
5-12-00	J. W. A. Grieve (00 F.).	1- 8-23	K. Biswas (36 R.).	
10 6- 2-01	J. Ph. Vogel (25 F.).	5-12-23	H.H. Lakshman Sen (24 N.).	
2- 7-02	F. Doxey (28 R.).	7- 5-24	B. Bhattacharya (24 N.).	
1- 6-04	G. H. Tipper (27 N.).	6- 8-24	L. M. Davies (24 N.).	
3- 8-04	Sir Lewis Leigh Fermor (36 F.).	3-12-24	G. Roerich (28 F.).	40
28- 9-04	H. E. Stapleton (26 R.).	6- 6-27	B. D. Jain (28 R.).	
15 2- 8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
3- 1-06	J. A. Chapman (28 N.).	5-12-27	H.H. Sir Tashi Nam- gyal (27 N.).	
19- 7-06	R. B. Whitehead (26 N.).	5-12-27	H.H. Kunzang Dech- hen (27 N.).	
3- 7-07	J. Coggin Brown (28 N.).	6- 2-28	Sir D. Ezra (28 R.)	45
3- 7-07	W. A. K. Christie (29 N.).	6- 2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	
20 1- 1-08	Sir U. N. Brahma- chari (27 R.).	2- 7-28	N. Roerich (28 F.).	
7- 4-09	C. A. Bentley (30 N.).	5-11-28	W. Reinhart (28 F.).	
4- 5-10	S. B. Dhavle (10 N.).	4-11-29	G. de P. Cotter (32 N.).	
4- 5-10	S. W. Kemp (29 F.).	3- 3-30	H. S. Ashton (30 N.).	50
1- 2-11	James Insch (28 R.).	5- 1-31	P. Evans (31 N.).	
25 7- 6-11	M. Hidayat Hosain (27 N.).	7-11-32	Suvarna Shumser Jung Bahadur Rana (32 N.).	
5- 7-11	R. B. S. Sewell (28 N.).	6- 2-33	J. C. Ghatak (33 R.).	
1-11-11	Kamaluddin Ahmad (24 N.).	5- 2-34	H. M. Sale (34 N.).	
		5- 3-34	H.H. Sir K. Singh (34 N.).	55

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election.	<hr style="width: 10%; margin: auto;"/> (Science.)
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secretaire Perpetual, Academie des Sciences, Paris.
15-1-34	SIR SYDNEY BURRARD, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. SIR SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, KT., Avondale, Sydney Road, Guildford, Surrey, England.
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhusevej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMBONG RAJANUBHAB OF SIAM, Siam.

ASSOCIATE MEMBERS.

Date of Election.	
1-2-22	*PIERRE JOHANNIS, REV., S.J., B.LITT. (OXON), <i>Professor of Philosophy</i> . St. Xavier's College, 30, Park Street, Calcutta.
1-2-22	*ANANTAKRISHNA SASTRI, MAHAMAHOPADHYAYA, VEDANTA-VISARADA, <i>Lecturer in Sanskrit, Calcutta University</i> . 32, College Square, Calcutta.
2-5-27	*N. N. VASU, RAI SAHIB. 20, Visvakosh Lane, Baghbazar, Calcutta.
2-12-29	†SARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor, 'Man in India'</i> . Church Road, Ranchi.
1-1-34	L. BOGDANOV. Flat 8-B, Solomon Mansions, 7, Royd Street, Calcutta.

* Re-elected for a further period of five years on 7-3-1932 under Rule 2c.

† Re-elected for a further period of five years on 1-1-1934 under Rule 2c.

INSTITUTIONAL MEMBERS

Date of Election.	
28-10-29	Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland.
2-12-29	Adyar Library, Adyar, Madras S.
4-5-31	Benares Hindu University Library, Benares.
1-6-31	Ohtani University Library, Kyoto, Japan.
5 7-12-31	Annamalai University Library, Annamalai-nagar, Chidambaram, S. India.
30-10-33	Allahabad University Library, Allahabad.
30-4-34	Bombay University Library, Bombay.
23-1-36	Islamia College Peshawar.
4-5-36	Patna College, Patna.
10 7-12-36	Forest Research Institute, Dehra Dun.
4-1-37	Dacca University, Dacca.
7-6-37	Agra University, Agra.

ORDINARY FELLOWS

Date of Election	
2-2-10	T. H. D. La Touche, B.A., F.G.S.
2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.SC.
2-2-10	Sir E. D. Ross, KT., C.I.E., PH.D.
7-2-12	Sir Samuel R. Christophers, KT., C.I.E., O.B.E., I.M.S., F.R.S.
5 7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.
5-2-13	J. Ph. Vogel, PH.D., LITT.D.
5-2-13	S. W. Kemp, B.A., D.SC., F.R.S.
3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.
2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S. (<i>retd.</i>).
10 2-2-16	Sir L. L. Fermor, KT., O.B.E., A.R.S.M., D.SC., F.G.S., M.INST.M.M., F.R.S.
7-2-17	F. H. Gravely, D.SC.
6-2-18	J. L. Simonsen, D.SC., F.I.C., F.R.S.
6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.
5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.
15 5-2-19	W. A. K. Christie, B.SC., PH.D., M.INST.M.M.
5-2-19	D. R. Bhandarkar, M.A., PH.D.
5-2-19	R. B. Seymour Sewell, C.I.E., M.A., SC.D., M.R.C.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., I.M.S.
2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F.
1-2-22	Ramaprasad Chanda, B.A.
20 4-2-25	M. Hidayat Hosain, PH.D.
1-2-26	P. O. Bodding, M.A.
7-2-27	Johan van Manen, C.I.E.
7-2-27	B. Sahni, M.A., SC.D., D.SC., F.G.S., F.R.S.
6-2-28	H. E. Stapleton, M.A., D.LITT., B.SC., I.E.S. (<i>retd.</i>).
25 6-2-28	B. Prashad, D.SC., F.Z.S., F.R.S.E.
6-2-28	C. A. Bentley, C.I.E., M.B., D.P.H., D.T.M. & H.
4-2-29	Sir Albert Howard, KT., C.I.E., M.A.
4-2-29	J. H. Hutton, C.I.E., M.A., D.SC., I.C.S.
4-2-29	Sir Edward D. MacLagan, K.C.S.I., K.C.I.E.
30 3-2-30	G. de P. Cotter, B.A., SC.D., M.INST.M.M., F.G.S.
3-2-30	S. L. Hora, D.SC., F.Z.S., F.R.S.E.
3-2-30	J. P. Mills, I.C.S., M.A., J.P.

Date of
Election

3-2-30	Meghnad Saha, D.SC., F.R.S.	
2-2-31	S. Krishnaswami Aiyangar, M.A., PH.D., F.R.HIST.S.	
2-2-31	R. N. Chopra, C.I.E., M.A., M.B., I.M.S.	35
2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).	
1-2-32	J. Bacot.	
6-2-33	Percy Brown, A.B.C.A.	
6-2-33	Ordhendra Coomar Gangoly, B.A.	
6-2-33	Ghulam Yazdani, M.A.	40
5-2-34	D. N. Wadia, M.A., B.SC., F.R.G.S.	
3-2-36	S. K. Chatterji, M.A., D.LIT.	
3-2-36	A. M. Heron, D.SC., F.G.S., F.R.G.S., F.R.S.E.	
3-2-36	N. G. Majumdar, M.A.	
3-2-36	Nawab Habib-ur-Rahman Shirwani.	45
15-2-37	K. N. Bahl, D.SC., D.PHIL.	
15-2-37	K. N. Dikshit, M.A.	
15-2-37	N. N. Law, M.A., B.L., PH.D.	
15-2-37	J. N. Mukherjee, D.SC., F.C.S.	

HONORARY FELLOWS

Date of
Election.

5-2-96	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.	
2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.O.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberley, Surrey, England.	
5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.SC., LL.D., PH.D., F.R.S. Trinity College, Cambridge, England.	
6-12-16	G. A. BOULENGER, F.R.S., LL.D. Jardin Botanique de L'Etat, Brussels.	
4-2-20	SIR AUREL STEIN, K.C.I.E., PH.D., D.LITT., D.SC., D.O.L., F.B.A. c/o Indian Institute, Oxford, England.	5
4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVI ^e .	
4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S. Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2.	
4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.	
4-2-20	SIR DAVID PRAIN, KT., C.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.L.S., F.R.S., F.Z.S., M.R.I.A. Royal Botanic Gardens, Kew, Surrey, England.	
4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.SC., LL.D., D.C.L., F.R.S., F.R.A.S. St. John's College, Cambridge, England.	10
4-2-20	SIR JAMES FRAZER, KT., D.C.L., LL.D., LITT.D. Trinity College, Cambridge.	
4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.	
2-3-21	F. W. THOMAS, C.I.E., M.A., PH.D. 161, Woodstock Road, Oxford, England.	
7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.SC., F.R.S. University of Edinburgh, Blackford Brae, Edinburgh.	
7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.	15
7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.	
7-3-27	RT HON'BLE THE EARL OF LYTTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.	

**Date of
Election.****5-12-27****LT.-COL. SIR T. WOLSELEY HAIG, K.C.I.E., C.S.I., C.B.E., M.A.,
C.M.G. 34, Gledstones Road, West Kensington, London, W. 14.****5-5-30****DR. R. ROBINSON, D.Sc., F.R.S. The Dyson Perrins Laboratory,
South Parks Road, Oxford, England.**

CHANGES IN MEMBERSHIP.

LIST OF MEMBERS WHO HAVE BEEN ABSENT FROM INDIA THREE YEARS AND UPWARDS.*

*Rule 40.—After the lapse of three years from the date of a member leaving India, if no intimation of his wishes shall, in the interval, have been received by the Society, his name shall be removed from the List of Members.

The following members will be removed from the next Member List of the Society under the operation of the above Rule : —

1. Mrs. L. Strickland Anderson. (1922.)
2. Lt.-Col. H. Hingston. (1926)
3. Major R. S. Wauchope. (1931.)
4. W. Pettigrew. (1930.)
5. Sir S. R. Christophers. (1909.)
6. H. W. Thomas. (1929.)

LOSS OF MEMBERS DURING 1936.

BY RETIREMENT.

Ordinary Members.

1. N. S. Davor. (1934.)
2. J. F. Blakiston. (1935.)
3. S. K. Datta. (1925.)
4. P. C. Duncan (1934.)
5. C. Sarawgi. (1936.)
6. W. H. Bates. (1934.)
7. Dr. D. N. Mitter. (1924.)
8. Rev. M. Ledrus. (1934.)
9. Sharda Prasad. (1934.)
10. S. M. Jaffar. (1935.)
11. W. J. Moloney. 1924.)
12. H. E. C. Wilson. (1934.)
13. W. S. Urquhart. (1927.)
14. Hon. S. N. Guha. (1926.)
15. J. Gladstone. (1934.)
16. R. N. Dutt. (1936.)
17. Sir H. Couchmann. (1934.)

BY DEATH.

Ordinary Members.

1. Sir W. L. Travers. (1929.)
2. Hon. B. K. Basu. (1929.)
3. H. K. Mitter. (1929.)
4. T. K. Barhut. (1926.)
5. Sir J. C. Bose. (1895.)
6. S. N. Das. (1924.)

Special Anniversary Honorary Member.

1. Baron Ernest Rutherford of Nelson. (1934.)

Honorary Fellows.

1. MM. Kamakhyanath Tarkavagisa. (1911.)
2. Dr. H. Jacobi. (1930.)

UNDER RULE 38.

1. N. C. Bhattacharya. (1928.)
2. D. M. Captain. (1927.)
3. Dr. S. N. Das Gupta. (1922.)
4. S. K. Deb. (1932.)
5. Matiur Rahman Khan. (1929.)
6. R. H. Parker. (1926.)
7. T. E. Rogers. (1924.)
8. A. G. Henderson. (1930.)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
- 1895 Yati Bhusana Bhaḍuri.
- 1896 Jnan Saran Chakravarti.
- 1897 Sarasi Lal Sarkar.
- 1901 Sarasi Lal Sarkar.
- 1904 { Sarasi Lal Sarkar.
- Surendra Nath Maitra.
- 1907 Akshoy Kumar Mazumdar.
- 1911 { Jitendra Nath Rakshit.
- Jatindra Mohan Datta.
- Rasik Lal Datta.
- 1913 { Saradakanta Ganguly.
- Nagendra Chandra Nag.
- Nilratan Dhar.
- 1918 Bibhutibhushan Dutta.
- 1919 Jnanendra Chandra Ghosh.
- 1922 Abani Bhusan Datta.
- 1923 Bhailal M. Amin.
- 1926 Bidhu Bhusan Ray.
- 1927 Kalipada Biswas.
- 1931 T. C. N. Singh.
- 1932 P. N. Das-Gupta.
- 1933 Nirmal Kumar Sen.
- 1934 D. P. Roy Chowdhury.
- 1935 Kalipada Biswas.
- 1937 Pulin Behari Sarkar.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
- 1903 Sir Ronald Ross, KT., K.C.B., C.I.E., K.C.M.G., M.R.C.S.,
F.R.C.S., D.P.H., LL.D., D.S.C., M.D., F.R.S.
- 1905 D. D. Cunningham, C.I.E., F.R.S.
- 1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
- 1909 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
F.L.S., F.Z.S., M.B.I.A., F.R.S.
- 1911 Carl Diener.
- 1913 William Glen Liston, C.I.E., M.D., D.P.H.
- 1915 J. S. Gamble, C.I.E., M.A., F.R.S.
- 1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
- 1919 N. Annandale, C.I.E., D.S.C., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
- 1921 Sir Leonard Rogers, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
F.R.S.
- 1923 Sir Samuel Christophers, KT., C.I.E., O.B.E., F.R.S., F.A.S.B.,
M.B., LT.-COL., I.M.S.
- 1925 J. Stephenson, C.I.E., B.S.C., M.B., O.H.B., F.R.S., F.R.C.S.,
F.R.S.E., LT.-COL., I.M.S.
- 1927 S. W. Kemp, B.A., D.S.C., F.R.S., F.R.A.S.B.

- 1929 Sir Albert Howard, KT., C.I.E., M.A., F.R.A.S.B.
 1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.),
 M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.A.S.B., F.R.S., LT.-COL.,
 I.M.S.
 1933 R. Row, O.B.E., D.SC.
 1935 B. Sahni, M.A., SC.D. (CANTAB.), D.SC., F.G.S., F.R.S.
 1937 R. N. Chopra, C.I.E., M.A., M.D. (CANTAB.), F.R.A.S.B., BT-
 COL., I.M.S.
-

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
 1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D.,
 F.B.A., HON. F.R.A.S.B., I.C.S. (*retired*).
 1930 Dr. Felix H. D'Herelle.
 1932 Dr. C. Snouck Hurgronje.
 1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A.,
 M.D., PH.D., F.S.M.F., F.R.A.S.B.
 1937 Prof. Dr. A. J. Wensinck.
-

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
 1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P., F.R.S.
 1933 Dr. Eugène Dubois.
 1936 Dr. John Henry Hutton, C.I.E., I.C.S., M.A., D.SC., F.R.A.S.B.
-

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
 1932 Dr. Ernst J. O. Hartert, PH.D.
 1935 Prof. Leo Semenowitch Berg.
-

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
 1934 Isaac Henry Burkill, M.A.
-

INDIAN SCIENCE CONGRESS MEDAL, CALCUTTA.

RECIPIENT.

- 1935 Meghnad Saha, D.SC., F.R.S., F.R.A.S.B.
-

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1937.

JANUARY, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 4th at 5-30 P.M.

PRESENT:

DR. A. M. HERON, D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Library Secretary, in the Chair.

Members :

Brahmachari, Sir U. N.
Chakravarti, Mr. C.
Flury, Mr. E. C.
Haq, Mr. M. Mahfuz-ul
Harley, Mr. A. H.
Hobbs, Mr. H.
Hosain, Dr. M. Hidayat

Kavyatirtha, Mr. R. D.
Manen, Mr. Johan van
Martin, Major M. F. C.
Prashad, Dr. Baini
Ray, Dr. H. C.
Siddiqi, Dr. M. Z.
and others.

Visitor :

Harley, Mrs. A. H.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of six presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary members:—

(1) *Vedantatirtha, Narendra Chandra*, M.A. (Bagchi, Bhattacharya Sankhyatirtha, Mimansatirtha, Tattvaratna, Sastri) Author and Editor of books, Secretary and General Editor, Calcutta Sanskrit Series, Metropolitan Printing and Publishing House Ltd., 90, Lower Circular Road, Calcutta.

Proposer: P. C. Bagchi.

Seconder: V. Vedantatirtha.

(2) *Ahmad, Shamsuddin, Maulvi*, Assistant Curator, Archaeological Section, Indian Museum, 27, Chowringhee, Calcutta.

Proposer: N. G. Majumdar.

Seconder: M. Hidayat Hosain.

The General Secretary reported that an application for Institutional Membership had been received from:

(11) Dacca University, Dacca,

which had been accepted by the Council.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

(6) Sarat Chandra Basu (An Ordinary Member, 1929).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(18) Oswald Urchs (An Ordinary Member, 1928).

(19) R. A. S. Thomas (An Ordinary Member, 1936).

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported that, in accordance with Rules 37 and 38, the names of the following Ordinary Members who had, since the previous meeting, been suspended as defaulters within the Society's building, had now been removed as defaulters from the Society's registers for non-payment of dues.

(1) Shiv Bandhan Pande.

(2) G. T. Sitling.

(3) J. P. Shukla.

The following papers were read:—

1. S. PRADHAN.—*The alimentary canal of Epilachna Indica* (Coccinellidæ : Coleoptera), with a discussion on the activities of the mid-gut epithelium.

On a comparative study of the alimentary canals of carnivorous and herbivorous beetles of the family Coccinellidæ (Coleoptera), it was seen that there were a large number of both structural and physiological peculiarities in the case of *Epilachna Indica* which are important from the view-point of digestion among insects in general. The alimentary canal of another species of *Epilachna*, i.e., *E. Corrupta*, has already been described by two American workers, Potts (1927) and Burgess (1932), but their accounts have differed from each other. In this paper the author has presented the results of his investigations on *E. Indica*.

2. A. H. HARLEY.—*Marwān B. Abī Ḥaṣṣah : a Post-Classical Poet.*

Marwān must be given a prominent place in any study of the post-classical Arabian poets. The famous philologist Ibnū'l-A'rābi has closed with him the list of poets whose work is authoritative for what is correct in diction and taste. His compositions fall into the category of panegyric or elegy, and several specimens raise him to high eminence by reason of the sincerity combined with their literary quality. He could model himself closely on the classical ode.

The following exhibits were shown and commented upon:—

1. M. MAHFUZ-UL-HAQ.—*A valuable Manuscript of an Urdū romantic Poem (Mathnawī) composed by Sharaf-un-Nisā, a lady of Murshidābād (Bengal).*

This valuable, and apparently unique, manuscript, which formerly belonged to the library of the Nawwāb Nāzims of Bengal and now adorns my collection of Islāmic manuscripts, is a long *Mathnawī* poem in Urdū, comprising 158 folios and containing more than 4,000 verses in the

Mutaqārib metre. The poem was composed (about 1845) by one Sharaf-un-Nisā and dedicated to Nawwāb Faridūn Jāh and his mother Ra'īs-un-Nisā Begum of Murshidābād.

It is probable that our manuscript is the original copy which was prepared from the author's draft as it contains additions and emendations in the handwriting of Sharf-un-Nisā herself.

The poem is a fine and possibly the only extant specimen of the poetical composition of a Bengali Muslim lady of the last century.

2. THE GENERAL SECRETARY.—*A new loan collection of 12,000 Sanskrit Manuscripts from the Government of India, hitherto preserved in the Archæological Section of the Indian Museum.*

The Government of India have agreed to the permanent loan to the Society of a large collection of about 12,000 Sanskrit Manuscripts hitherto preserved in the Archæological Section, Indian Museum, Calcutta.

A condition attached to the loan is that the Society shall prepare a handlist of the manuscripts.

The Council have gratefully accepted the offer, and the Manuscripts are exhibited.

The following communication was made:—

1. JOHAN VAN MANEN.—*A difficult Verse in the Dhammapada.*

The Dhammapada, though translated a dozen times by various scholars, still offers many a problem of exegesis. Intensive treatment of several verses is called for. An example in point is offered by verse 34 in the chapter on 'Thought' or 'Mind'.

In Max Müller's translation the verse runs:—

'As a fish taken from his watery home and thrown on the dry ground, our thought trembles all over in order to escape the dominion of Māra (the tempter).'

The short chapter consists of 11 verses mostly exhorting the reader 'to make straight his trembling and unsteady thought, which is difficult to guard, difficult to hold back'.

How then should thought 'tremble all over in order to escape the dominion of Māra', if it should be steady to achieve spiritual results? Besides, the fish dies when on the dry land, the water is its home. Has the mind, or the thought, to die in order to escape the dominion of Māra, like the Christian exhortation 'whoever loses his life shall find it'?

Neumann gives a different explanation. He takes the water as a symbol of the world of desire or death. Whilst living in this world of desire, the world of Māra, the uninstructed soul trembles in fear at the prospect of death.

The main problems posed by the verse are:—

1. May there be a corruption in the text? If so, what may be suggested?
2. Does pahātave indicate 'to escape from' or 'to give up, to relinquish'?
3. Does Māra here stands for 'Tempter' or 'Death'?
4. Is Māradheyya 'the dominion of Māra' or rather 'the realm of death', or perhaps 'pertaining to the realm of death', like in 'mortal mind'.
5. What is the thought if the verbal form needs an 'in order to'?
6. Does 'trembling' or 'wriggling' give a better sense?

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that both the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.

The Chairman announced that the Annual Meeting of the Society would be held on Monday, the 1st of February, 1937, and invited the members present to communicate to the General Secretary the names and addresses of non-members to whom they wished invitations to be issued.



FEBRUARY, 1937.

No Meeting.



MARCH, 1937.

No Meeting.



APRIL, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT:

DR. A. M. HERON, D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Vice-President, in the Chair.

Members:

Bagechi, R.B. K. N.
Bose, Mr. M. M.
Guha, Dr. B. S.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Jain, Mr. C. L.

Manen, Mr. Johan van
Mookerjee, Mr. B. G.
Mullick, Mr. M. L.
Neogi, Dr. P.
Olpadvala, Mr. E. S.
Wadia, Mr. D. N.

Visitors:

Blair, Mr. A. P.
Blair, Mrs.
Bose, Mr. H. K.
Chatterji, Mr. B. K.

Macfarlane, Mr. J. B.
Macfarlane, Mrs.
Nair, Mr. K. K.
Sarkar, Mr. S.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nineteen presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(3) *Sharafuddin, S.*, M.A., B.L., Bengal Educational Service, Professor of Arabic and Persian, Islamia College; 72-2, Taltollah Lane, Calcutta.

Proposer: A. H. Harley.

Seconder: Ramaprasad Chanda.

(4) *Gupta, Miss Karunakana*, M.A., Professor of History, Bethune College, 181, Cornwallis Street, Calcutta.

Proposer: D. R. Bhandarkar.

Seconder: Chintaharan Chakravarty.

(5) *Sufi, M. E.*, B.A., D.P.H., L.R.C.P.E., L.R.C.S.E., L.F.P.S.G. Assistant Director of Public Health, Bengal (retired), 8-A-1, Elliot Lane, Park Street, Calcutta.

Proposer: A. F. M. Abdul Ali.

Seconder: D. R. Bhandarkar.

(6) *Sahni, Mulk Rai*, M.A. (Cantab.), D.Sc. (Lond.), D.I.C., Geologist and Palaeontologist, Geological Survey of India, 27, Chowringhee, Calcutta.

Proposer: A. M. Heron.

Seconder: S. N. Wadia.

(7) *Wolfenden, Stuart N.*, Beverly Hills, California, U.S.A.

Proposer: Johan van Manen

Seconder: Sir U. N. Brahmachari.

(8) *Roy, David*, Assam Civil Service, Shillong, Assam.

Proposer: B. S. Guha.

Seconder: J. N. Mukherjee.

(9) *Shirazi, Mohammed Ali*, M.A., Lecturer, Calcutta University; 53A, Theatre Road, Calcutta.

Proposer: M. Hidayat Hosain.

Seconder: Sumti Kumar Chatterji.

(10) *Mooney, Herbert Francis*, M.A. (Oxon.), I.F.S., Forest Adviser, Eastern States, Sambalpur, B.N.Ry.

Proposer: C. C. Calder.

Seconder: R. N. Chopra.

(11) *Asari, J. R.*, B.A. (Hons.) Retired Assistant Controller of Printing, Stationery and Stamps, Government of India, 79, Wellesley Street, Calcutta.

Proposer: M. Hidayat Hosain.

Seconder: M. Mahfuzul Haq.

(12) *Sattar, The Hon'ble Mr. Abdur Razzak Hajie Abdus*, Member, Council of State, 25, Harinbari Lane, P. O. Bowbazar, Calcutta.

Proposer: M. Hidayat Hosain.

Seconder: Johan van Manen.

(13) *Sen, Kshitimohan*, M.A., Shastri, Principal, Vidyabhanana, Visva-Bharati, Santiniketan, Dt. Birbhum, Bengal.

Proposer: Sumti Kumar Chatterji.

Seconder: J. N. Mukherjee.

The General Secretary reported that Raja Kshitindra Deb Rai Mahasai of Bansberia Raj whose name had been removed from the member list of the Society in 1935, under Rule 38, had now regularised his subscription and that the Council now proposed his re-admission as a member.

The General Secretary reported the deaths of:—

- (1) MM. Kamakhyanath Tarkabagisa (An Honorary Fellow since 1911).

The General Secretary reported receipt of news of the death of an old relation of the Society:—

Dewan Bahadur L. K. Anantakrishna Iyer (An Associate Member, from 1910 to 1928).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

- (1) N. S. Daver (An Ordinary Member, 1934).
- (2) J. F. Blakiston (An Ordinary Member, 1936)
- (3) P. C. Duncan (An Ordinary Member, 1934)
- (4) S. K. Datta (An Ordinary Member, 1925).
- (5) D. N. Mitter (An Ordinary Member, 1924).

The General Secretary reported that the election of:—

- (1) S. N. Banerjee (elected on 7-10-35),
- (2) T. N. Banerjee (elected on 7-12-36),

had become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported that the constitution of the various standing committees of the Society for the year 1937-38, to be as follows:—

Finance Committee:—

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	
Dr. Baini Prashad.	
Dr. J. N. Mukherjee.	
Mr. K. C. Mahindra.	
Sir U. N. Brahmachari.	

Library Committee:—

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	
Philological Secretary.	
Jt. Philological Secretary.	
Nat. Hist. Secretary (Biology).	
Nat. Hist. Secretary (Phy. Science).	

Anthropological Secretary.

Medical Secretary.

Library Secretary.

Sir U. N. Brahmachari.

Publication Committee:—

President	} <i>Ex-Officio.</i>
General Secretary	
Treasurer	

Philological Secretary.

Jt. Philological Secretary.

Nat. Hist. Secretary (Biology).

Nat. Hist. Secretary (Phy. Science).

Anthropological Secretary.

Medical Secretary.

Library Secretary.

Sir U. N. Brahmachari.

The General Secretary reported that the Council had recommended the re-election of the following gentlemen as Associate Members of the Society for a further period of five years, under Rule 2.

1. Rev. Pierre Johannes, S.J.
2. MM. Anathakrishna Shastri.
3. Mr. Nagendra Nath Vasu.

The following papers were read:—

1. MRS. EILEEN J. W. MACFARLANE.—*The Jewish Communities of Cochin, India : their racial Affinities.*

The Jews of Cochin totalled 1,451 in 1931, divided into two endogamous communities, the White and the Black Jews.

The White Jews, a minority of under 150, claiming origin from Palestine in the first century A.D., came to Cranganore, Cochin, where they were given autonomy over their estates, as well as other special privileges by an ancient Raja. Antique copperplate deeds which record these grants are still in their possession. They aver that the Black Jews are the descendants of Indian convert slaves of their ancestors, and are not of the Jewish race.

The Black Jews declare that they are descended from Jews who came from Palestine before the Christian era, and explain their brown skins by a long sojourn in the Tropics. They claim that their ancestors owned the Cranganore estates and privileges, that the White Jews are new arrivals within the past 400 years who took the copperplate deeds from them.

There are also two small sub-communities, one connected with each of the main groups. These are: (1) the descendants of White Jews and converted Indian concubines; (2) descendants of freed slaves and of Indian convert concubines of Black Jews. They are called Manumitted Jews. This proves that it has been customary here to free the Jewish children of servants and slave women.

About fifty years ago the Black Jews appealed to the Chief Rabbi who declared that all of them were entitled to the full religious and social status of true Jews, providing that they observed the Law and their women and children took the Rabbinical bath called *Tahila*.

Serological data were obtained in order to throw light on this controversy. They show that the distribution of the blood groups in the two communities is entirely dissimilar. The White Jews show 62% Group A. This is due to inbreeding for the two largest families, who have intermarried frequently, are now apparently homozygous for gene A. The Black Jews show a disproportionate high percentage of Group O—73·6%. This group was found to be very high among the low castes and out-castes of Cochin. Native slaves and concubines would come from these poor classes, and the chances are 7 to 3 that a low class woman will carry the recessive gene R of Group O. Additions to the community have evidently taken place from Group O persons. Physically the Black Jews resemble the local Moplah Mohannmedans who are descended from Arab traders and local women.

Consideration of the judgment of the Great Rabbi concerning the Black Jews, and of the blood grouping and physical anthropology of Jewish communities in other parts of the world, shows that Judaism is a culture and not a race in the biological sense. Jewish people in different regions are dissimilar in racial make-up. In Cochin, social classes have become endogamous castes. Since the Jews are patriarchal, children belong to the father's 'race', the Black Jews are right in contending that they are 'true Jews'. When the descendants of Indian converts and slaves attained full Jewish status they were socially ostracized by the select 'White' group, therefore they would be absorbed by the 'Black' community. Thus the proportion of original Semitic genes in the Black Jews must be low. The White Jews have practised strict inbreeding, but they have been joined by Jews from Arabia, the Near East, North Africa, Spain and Germany during the past 450 years.

The existence of a Jewish principality at Shingli (Cranganore) rests only on tradition, and the date and exact meaning of the copperplate grants are controversial. Both communities had the right to fire salutes at dawn on wedding days from a cannon. In the seventeenth century the Dutch Governor Moens remarked upon the fact that they exercised this right which was otherwise reserved for princes.

Local traditions reveal that there has always been onmity between the White, or Jews of non-Indian blood, and the descendants of mixed alliances. According to the White Jews internal strife among the Jews at Cranganore caused the Black Jews to be driven out in the 14th century, when the latter came to Cochin Port and built a synagogue. Later Mohammedan raids and Portuguese persecutions forced them all to leave their original settlement in the 16th century. These refugees also went to Cochin Port where the Raja gave them part of the grounds of his palace on which to build a synagogue. This synagogue, with all the records, was burned by the Portuguese in 1662 and rebuilt with the help of the Dutch in 1664. It is now called 'Parathesi'. The original name may have been 'Paradisus' from its situation in the Raja's park or garden.

The synagogues of the Black Jews are named after the two synagogues of Cranganore. They possess seven in this region.

All the White Jew families now living are descended in the male line from Jews who immigrated to India in the past 450 years. The fact that they have a few customs and ceremonies which are unknown to Jews elsewhere but common to the Black Jews, including *thal*-tying at home by the bride's mother, two pulpits in the synagogue and the absence of a canopy at weddings, show that the two communities have a common cultural source. This is presumably the ancient traditional Jewish colony at Shingli (Cranganore).

Physical measurements and genealogical diagrams are given for some families of the White Jews. They reveal a high degree of heterozygosity including two distinct head types, one brachycephalic and the other mesocephalic. Several of these people are blond. There is inherited insanity and diabetes among them, but many are healthy and well-

endowed mentally. Photographs are given to show some types among the White and Black Jews.

The traditions of both communities have been correlated and peculiar customs of the White Jews recorded for the first time.

New sources of historical data (French and Portuguese) have been revealed.

A photograph of the Jewish copperplates has not heretofore been published to the writer's knowledge.

2. J. C. DE.—*The development of the theory of divine nature of kings in Assam.*

An analysis of the terms used in inscriptions regarding Assamese Kings shows a definite tendency towards their deification.

The history of Assam may be roughly classified into three periods: early historical, Ahom and British. An analysis of the inscriptions shows that during the Ahom period there is a tendency to surround the king with mystic symbols, to make him participate in religious observances, to employ semi-divine priests as his advisers, to use the same words for deva and monarch, to ascribe to the earthly king descent from the king of heaven.

3. K. KRISHNAN NAIR.—*An abnormal specimen of Silurus Cochinchinensis Cuv. and Val. showing eversion of stomach into the pharyngeal cavity.*

Description of a large tumour-like growth in the mouth of a specimen of *Silurus Cochinchinensis* Cuvier and Valenciennes, belonging to a collection of fish made by V. P. Sondhi in the Southern Shan States, Burma. Reference to a similar abnormality in a Brown Trout (*Salmo fario* Linn.) recently studied by D. D. Mukerji.

4. D. D. MUKERJI.—*An abnormal brown trout (Salmo fario Linn.) showing eversion of stomach into the pharyngeal cavity.*

Specimen of adult male of *Salmo fario* Linn. collected from amongst the fry in the local brown trout hatcheries, Kagan Forest Division, Hazara District, N.-W.F.P., where an epidemic of high mortality occurred.

A massive thumb-shaped structure was found on opening the pharynx. The structure proved to be formed as a result of the complete eversion and prolapsus of the proximal loop or the broad cardiac portion of the siphonal stomach into the pharyngeal cavity. The structures immediately following were pulled forwards and inwards and drawn into the everted sac in front of the gullet which also is everted and forms the posterior end of the sac. Detailed account of the abnormalities. Note concerning the probable mode of the ingestion of food. Illustrations.

5. M. H. KYAW and G. E. GATES.—*The earthworm population and the formation of castings in Rangoon, Burma.*

The investigation was made in Rangoon during the rainy season, 1935, on two sample plots, ten feet square. Description of method. Statistical results. From the first plot 238 worms were collected belonging to at least six species, from the second plot 168 worms also belonging to at least six, but not all the same, totalling eight species. The number of juvenile acitellate and clitellate individuals was counted for each species. The average of earthworm population per acre as the basis of the two results works out at an average of 88,426.

Two types of castings were collected and weighed and analyzed. Influence of rainfall on formation of castings. Calculation of estimated amount of dry earth deposited as castings per acre results in 11,606 and 13,824 tons per acre for a period of a hundred days.

6. KALIPADA BISWAS.—*Common Diatoms of the Loktak Lake, Manipur, Assam.*

Specimens collected by Dr. S. L. Hora and the late Dr. N. Annandale in 1920, from the Loktak Lake, Manipur. General introduction. Description of ten species. Illustrations.

7. K. SEN.—*Some notes on rural customs of Dinajpur District.*

More or less disjointed notes on some customs observed in the interior of the Dinajpur District. Area. Population. Hinduizing tendency amongst the Raybangshis, consequent change in the position of women, as well as in their costumes. Industries. Religious pantheon. Kali-worship. Protection against snake-bite. Cure of stomach-ache. Muhammadan Jumma-ghars. Tombs of saints. Rent-free lands attached to Hindu temples and Muhammadan shrines. Mandal-ship, selection of village headmen. Magical customs and rites. Conclusion: as the population is still primitive there may be some features which are not commonly found elsewhere.

The Chairman announced the result of the ballot for the election of Ordinary members and declared that all the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.

The Chairman announced that a General Lecture would be delivered in the Society's Hall on Monday the 12th April, 1937, at 6 P.M.

Lecturer: DR. HERMANN GOETZ, Ph.D., Leyden, Holland.

Subject: *The History of Mughal Civilization as reflected in its Art.*

Notices of this lecture would be issued to all the members during the week, and members were requested to communicate to the Society's office names and addresses of non-members to whom they wished invitations to be issued.



MAY, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 3rd at 5-30 P.M.

PRESENT:

D. N. WADIA, Esq., M.A., B.Sc., F.R.G.S., F.R.A.S.B., Ordinary Member, in the Chair.

Members:

Agharkar, Dr. S. P.
Chakravarty, Mr. C.
Chatterji, Mr. P. P.
Choudhury, Mr. R. B.
Deb, K., Rai Mahasai
Ghose, Mr. T. P.
Groth, Mr. E.

Harley, Mr. A. H.
Hobbs, Mr. H.
Hosain, Dr. M. H.
Ledrus, Rev. M.
Manen, Mr. Johan van
Sen, Mr. J. M.
Singhanian, Mr. R. P.

Visitor :

Syed Moulana Abul Fakhar.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nine presentations of books, etc., which had been placed on the table for inspection:—

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rules 37 and 38, the General Secretary reported that the names of the following Ordinary Members would be suspended as defaulters within the Society's building for a month to be removed from the Society's registers for non-payment of dues unless the amount due be paid before the next Ordinary Monthly meeting.

		Due Rs.
1.	N. C. Bhattacharya ..	117
2.	D. M. Captain ..	99
3.	S. N. Das-Gupta ..	105
4.	S. K. Deb ..	72
5.	Matiur Rahman Khan ..	78
6.	Hirde Narain ..	60
7.	R. H. Parker ..	117
8.	T. E. Rogers ..	66
9.	Count Ohtani ..	84
10.	A. G. Henderson ..	50

In accordance with Rules 2 and 13, the Chairman called for a ballot for the re-election as Associate Members of the Society of:—

- 1. MM. Ananthakrishna Sastry.
- 2. Rev. Pierre Johannes, S.J.
- 3. Mr. N. N. Vasu.

proposed for election in the last Monthly Meeting.

The Chairman called upon Dr. B. S. Guha to read an obituary notice of Dewan Bahadur L. K. Anantha Krishna Iyer. Dr. Guha read the obituary notice. (See page 131.)

The Chairman called upon Mr. Chintaharan Chakravarti to read an obituary notice of MM. Kamakhyanath Tarkabagisa. Mr. Chintaharan Chakravarti read the obituary notice. (See page 132.)

The following paper was read:—

1. A. H. HARLEY.—*The Child-world and the Child in Araby.*

General introduction: the older psychology rarely features the child in sculpture or painting, and does not cater for him in literature till a late date; recognition of the play-instinct is comparatively recent.

A number of games played by children in the Arab tribes are here illustrated from the oldest literature: e.g. Mock Fights; the Whirligig or Saw; 'Conkers'; Tip-cat; the Spinning-top; Pebbles and Holes; Hand-ball; etc.

The following exhibits were shown and commented upon:—

1. M. HIDAYAT HOSAIN.—*Kitāb al-I'lān ; a very rare and original Manuscript in the Society's Collection.*

This manuscript is a combination of six treatises on different branches of Arabic learning in one work. When it is read in the usual manner it deals with the jurisprudence of the Zaidi sect of Islam, but when a page is read from top to bottom, which is divided into five columns in red ink, each column deals with five branches of Arabic learning, viz. (1) Prosody and Rhyme, (2) Syntax, (3) Etymology, (4) Logic, and (5) the correct pronunciation and the various readings of the text of the Qur'ān. The author of the work is Shihāb ad-Dīn Aḥmad bin 'Abdallāh as-Sullamī and it was composed in A.H. 1115 (A.D. 1703). No other copy of his work is known.

2. M. HIDAYAT HOSAIN.—*Arabic biographical Works in the Society's Library.*

This collection of books deals with the biographies of companions of the Prophet, commentators of the Qur'ān, poets, writers, traditionists and saints of the Islamic world. It consists of about 71 works, of which some comprise several volumes.

3. CHINTAHARAN CHAKRAVARTI.—*The Society's Collection of Manuscripts of the Tantrasāra in non-Bengali Scripts.*

Though there are numerous Sanskrit works of a comparatively earlier age possessing a general interest and enjoying an all-India popularity, the provinces in comparatively later years developed provincial literatures of regional and limited interest, little known beyond their territorial borders. A special significance therefore attaches to the find of manuscripts of works of one province in places beyond its limits and specially in scripts not in use therein.

The Society's collection, made principally in Bengal, contains manuscripts in the Bengali script of a good number of works composed in other parts of the country. Manuscripts of works, produced in Bengal, copied in non-Bengali scripts, however, figure very poorly in this collection though such manuscripts are known to exist in different parts of the country.

The Society's collection of manuscripts of the *Tantrasāra* of Kṛṇānanda is specially interesting in this respect. It is a sixteenth century work on Tantra-rituals very popular in Bengal. But the Society's manuscripts of the work are almost all in non-Bengali scripts. The two complete manuscripts (4755, 11288) are in the Newari script. There are also two manuscripts in the Nāgarī script (10355, 11176) containing only extracts. Portions of the work are found in a mutilated form, with occasional omissions intervening, in two manuscripts, one (11204) in Nāgarī and the other in Newari (11354), as also in a Bengali manuscript (5015)—the only one in Bengali character—where the order of the topics is different from that in the *Tantrasāra*. It is not known if the last three manuscripts

belong to works based on the work of Kṛṣṇānanda like Rāmānanda's *Samgraha*, of which there is a manuscript in the Society (II. A. 48), complete in ten chapters. It is also possible that the *Tantrasāra* along with other works borrowed from the same source which, or rather fragments of which, can be traced in these manuscripts as well as in works like the *Syāmārahasya*, sections of which (e.g. *Savasāadhanā*) closely agree with similar sections of the *Tantrasāra*.

The Chairman announced the result of the ballot for the re-election of Associate Members and declared that the candidates set forth in the ballot paper had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.



JUNE, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th at 5-30 P.M.

PRESENT :

RAI SIR UPENDRA NATH BRAHMACHARI Bahadur, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President, in the Chair.

Members :

Ahmed, Mr. S.
Deb, K., Rai Mahasai
Dugin, Mons. L. S.
Dutt, Mr. M. N.
Ezra, Sir David
Groth, Mr. E.
Hobbs, Mr. H.

Hora, Dr. S. L.
Hossain, Dr. M. H.
Lal, Dr. R. B.
Manen, Mr. Johan van
Prashad, Dr. B.
Saha, Dr. Meghnad

Visitors :

Ghose, J. C.

Podewils-Durniz Countess von

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of seven presentations of books, etc., which had been placed on the table for inspection.

The General Secretary reported that no applications for membership in the Society had been received, since the previous meeting.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

- (6) Chandmall Sarawgi (An Ordinary Member, 1936).
- (7) W. H. Bates (An Ordinary Member, 1934).
- (8) Rev. M. Ledrus (An Ordinary Member, 1934).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 19.

The General Secretary reported that there had been no withdrawals of application since the previous meeting.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members who had, since the last meeting, been suspended as defaulters within the Society's building, had been now removed from the Society's registers for non-payment of dues:—

1. N. C. Bhattacharya.
2. D. M. Captain.
3. S. N. Das-Gupta.
4. S. K. Deb.
5. Matiur Rahman Khan.
6. R. H. Parker.
7. T. E. Rogers.
8. A. G. Henderson.

The following paper was read:—

1. G. E. SHAW and E. O. SHEBBEARE.—*The Fishes of Northern Bengal.*

The paper is in the form of a hand-book of the fish of Northern Bengal and embodies observations made in the field by the authors over a period of fifteen years. The material was obtained from the rivers, streams and ponds in the hills and plains of the Darjeeling District and the adjoining Duars. The species collected from bazaars are also listed, but such names are enclosed in brackets. The species, previously recorded by earlier workers, but not by the authors are also recorded to complete the list. Local vernacular names, Bengali names and Hindi names of the different species are given and wherever possible biological notes are added.

Identification tables for families, genera and species are included and to facilitate reference the serial number of the species in the 'Fauna' is given.

All the species are illustrated either in the text or in plates, so that there is a complete atlas of the species known from Northern Bengal. Most of the illustrations are original, the others are borrowed from other sources.

The following exhibits were shown and commented upon:—

1. JOHAN VAN MANEN.—*Two recent publications for which Manuscripts from the Society's Collections have been utilized.*

Like all other Manuscript Libraries the Society constantly lends out manuscripts for utilization in the production of scholarly editions or studies. Recently two important publications have been issued for which MSS. from the Society's library have been used. They are:

- (1) Studien zur Textgeschichte des Rāmāyaṇa, by Walter Ruben. Stuttgart.
- (2) Nilamata or the teachings of Nīla, Sanskrit text with critical notes, edited by K. de Vreese, Leiden.

2. JOHAN VAN MANEN.—*A glossary and concordance to Firdausi's Shahnama.*

The recent millenary of Firdausi has been celebrated not only in Persia but throughout the civilized world. The German Empire has

published, as a jubilee gift, a sumptuous volume, with supplement, containing a complete glossary and word-concordance to the *Shahnama*. The author is Fritz Wolff. The main volume, of over 900 quarto pages, contains the glossary and word-concordance, whilst the smaller supplementary volume contains a verse-concordance to the three editions by Macan, Vullers and Mohl. The work has been published by the 'Notgemeinschaft' of German Science in association with the German Oriental Society, who have kindly presented the Royal Asiatic Society of Bengal with a copy of those most valuable volumes.

The following communication was made :—

1. JOHAN VAN MANEN.—*Bodding's Santal Dictionary*.

Until recent decades the lexicographical treatment of the many languages of India was with one exception rather primitive. The one exception was the great Sanskrit Dictionary by Böhrling and Roth, published in St. Petersburg in seven gigantic volumes, from 1855 to 1875. None of the vernaculars, until quite recently, show anything comparable to that work. Of late a great improvement has taken place, though in certain cases bulk and methodical treatment have not been commensurate. In 1925 Stede's Pali-English Dictionary became complete, in 1931 Turner's Nepali Dictionary, and in 1932 Grierson's *Kāshmiri Dictionary*. For several vernaculars extensive and detailed dictionaries are in course of publication. Last year P. O. Bodding completed his *Santal Dictionary*, a monumental work in five volumes, containing over 3,400 large octavo pages. The nucleus of the material had been collected by Skrefsrud before 1890 when the Rev. Bodding arrived in India to work amongst the Santals as a missionary. In about 1905 Mr. Bodding had increased the number of words from an initial 13,000 to about double that number. From 1905 regular work on the dictionary had to be laid aside for about 20 years, but in 1924 the work was taken up again and became the author's principal occupation. During that time Mr. Bodding had not only been speaking the Santal language daily, but had studied it with the greatest care. In 1903 he had provisionally finished the translation of the Bible into Santali. From 1924 to 1934, another 10 years, the dictionary remained Mr. Bodding's main preoccupation. Notwithstanding his thorough knowledge of the language the author took the greatest care to ensure the reliability of his data, so necessary in the case of a practically unwritten language. When working on the dictionary he had always Santals sitting with him, never less than three at a time. These, the author says, were intelligent men with experience and knowledge of the people and their customs. The author is a linguistic scholar of great gifts, quite apart from his specific knowledge of the Santal language. He has been at pains to indicate possible correspondences with other Munda idioms. The dictionary is exceedingly rich in its record of idiomatic expressions and combinations. Throughout the work a wealth of information of ethnological interest is to be found, and a special index to the relevant headings is added to the work. With this life-work of over 40 years' duration, terminated by the issue of the last volume in 1936, Mr. Bodding has erected a monument to himself and produced a linguistic document unrivalled for any Indian aboriginal idiom.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.

JULY, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT:

RAI SIR UPENDRA NATH BRAHMACHARI BAHADUR, Kt.,
M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Vice-President
in the Chair.

Members:

Bose, Mr. M. M.
Brahmachari, Dr. P.
Chakravarti, Mr. C.
Chatterji, Dr. S. K.
Dutt, Mr. M. N.
Haq, Mr. M. Mahfuz-ul

Hosain, Dr. M. Hidayat
Manen, Mr. Johan van
Mookerjee, Mr. B. G.
Rahman, Mr S. K.
Wadia, Mr. D. N.
West, Mr. W. D.

Visitor:

Taifoor, Mr. Syed M.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of ten presentations of books, etc., which had been placed on the table for inspection.

The following candidate was balloted for for election as an Ordinary Member:—

(14) *Mukherji, Pannalal, Rai Bahadur*, Zemindar and Honorary Magistrate, 7, Rajmohan Road, Uttarpara P.O., Dt. Hooghly.

Proposer: M. M. Bose.

Seconder: M. L. Mullick.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no lapses of election, since the previous meeting under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following paper was read:—

1. S. K. BANERJI.—*The Qūwat-ul-Islām, the oldest Mosque in Delhi.*

In this paper, the author deals with the history of the mosque, Qūwat-ul-Islām, or the Jāmi' Masjid, in Qil'a-i-Rai Pithaura (Delhi) as derived from the inscriptions over the inner eastern gateway of the mosque. Comments on the readings of the inscription. Description of the mosque, its courtyard and the old Hindu remains found in it. Discussion concerning the date of the first conquest of Delhi by the Muslims. Description of the central arch, the screens and the arches. Erection of the mosque attributed to Qūṭb-ud-Dīn. A study of his character as depicted by the Qūwat-ul-Islām. Iltutmish's and 'Ala'-ud-Dīn's extensions to the mosque. Its later history.

Conclusion. The Qūwat-ul-Islām is a landmark in Indian history representing the ushering in of a new era in Indian culture and politics. Culturally, it marks the happy fusion of the two building traditions,—Hindu and Muslim,—and leads to a vigorous cultivation of architecture as a science and art. The Hindu richness and elaboration of detail,

combined with the Muslim love for symmetry and art purity, produced what may be designated as an Indian style of architecture. And this style marks off the Muslim buildings of India from the other Saracenic buildings of the world. The mosque is a harbinger that proclaims in the twelfth century the advent of a force which working under the indigenous inspiration and stimulus produced such masterpieces as the Tāj and Shāhjahānābād. It symbolizes also politically the might and majesty of Islām that had been able to conquer Hindustān. This edifice may therefore be taken to mean literally an announcement in brick and mortar of the change of government, the Rājput supremacy 'yielding place' to the Muslim domination.

Historically, the Qūwat-ul-Islām is important for the reason that it is the result of the efforts of three important rulers of Mediæval India, Qutb-ud-dīn, Iltutmish and 'Alā'-ud-Dīn. It therefore represents and unfolds the history of five centuries of Muslim rule beginning with the establishment of the Slave dynasty in India.

The following exhibits were shown and commented upon :—

1. SUNITI KUMAR CHATTERJI.—*Three old brass utensils with incised designs.*

The three old brasses exhibited were acquired by me about twenty years ago from a brass shop in the old town of Gaya. Two are hexagonal dishes, one regular, the other oblong (the regular one roughly $8\frac{1}{2}'' \times 8\frac{1}{2}''$, the oblong one roughly $10'' \times 8''$), and the third article is a round box with a flat dome at the top of the lid (diameter of base 6'', and height 4''). The two plates, of old Benares work, are similar in style: each has a wide border with perforations, and an engraved design in the centre surrounded by eight panels with animal decorations. The oblong plate would appear to be the slightly older of the two: they are in the style of the familiar old Benares *loṭās*, only the draughtsmanship of the plates though spirited enough is slightly inferior. I would think the plates are about 100 years old—the regular one might be a little younger. The central designs are Hindu (Rajput) miniatures executed in outline on the brass, in the style of 18th century Kangra and Jaipur pictures. The oblong one is that of a girl in Rajput dress, evidently an *abhisārikā* (a young woman going to the tryst during the night): the star border round the figure is noteworthy. The panels round this figure depict two elephants facing each other, two peacocks on either side of a tree, a horse with saddle and trappings, and a boar, with parrots at four corners. The regular hexagonal dish has in the centre a pair of lovers in Rajput dress, seated on a throne or settee, the young man with a sword, the girl doing her hair, with a mirror in front of her; and there are two birds in cages or perched on metal hoops suspended from the ceiling, with an oblong fan with a handle above the head of the girl. The panels depict a deer, with a parrot carrying a fruit in its beak, a tiger, a caparisoned elephant, two parrots facing a tree in the centre, a caparisoned horse, a boar, a peacock with spread-out tail, and another elephant.

The round box, evidently for keeping prepared betel, has perforated decorations in the form of lozenges both around the side and the lid. The lid has a flat lotus design at the top, and separated from each other by the lozenge panels there are four panels with the figure of an elephant, a horse, a humped bull and a tiger (or lion). Similar figures, flanked by perforated panels on either side, are found in the side. The style of drawing for these animals is decidedly different from that found on the plates. There is realism in the figures on the plates: on the box, we have stylization. The bull recalls Chinese work; the elephant is hardly Indian, except in the head contours. The horse recalls the style of Scythic and Celtic art. The tiger (lion ?) also,—although South Indian affinities are known. The head and mouth of all these animals are noteworthy.

Where was this box made? The perforated decorations and the general style of execution are of Benares: but the animal designs are peculiar for Benares. Are these copied by Benares work-men from some foreign, extra-Indian picture? Or are they just a peculiarly stylized Indian treatment, with plenty of affinities within India, though not in agreement with the current Benares style?

One great point to note in the box is the subject of the panels. These four animals feature in the capital of the well-known Śarnath Asoka Pillar. On the top of the pillar facing the four quarters are four fronts of lions—heads and fore-feet; and below, flanked by a *cakra* on either side, are four animals—an elephant, a horse, a bull and a lion, which are the vehicles or symbols of the four *Loka-pālas* (or guardians of the quarters) of Buddhism—viz. *Dhṛtarāṣṭra* (East—Elephant), *Virūḍhaka* (South—Horse), *Virūpākṣa* (West—Bull) and *Vaiśravaṇa Kubera* (North—Lion). Brahmanism has its *Loka-pālas*, and they are *Indra* (East—his symbol is the Elephant), *Yama* (South—symbol, the Buffalo), *Varuna* (West—*Makara*, a kind of Water-Dragon) and *Kubera* (North—a Man). The box evidently has the symbols of the Buddhist *Loka-pālas*. Is it a case of an unconscious survival of an old Buddhist traditional design (in folk-art), taken up by the craftsmen of Benares?

2. CHINTAHARAN CHAKRAVARTI.—*The Society's Collection of Manuscripts of Sanskrit Works on the Game of Chess.*

Though the game of Chess is generally supposed by scholars to be of Indian origin and reference to the game is found in various Indian works from a very early time, works in Sanskrit or in any other Indian language dealing with and describing it are comparatively rare. As a matter of fact no early Indian work on the subject is known, and until very recently the world of scholars had knowledge of very few Indian descriptions of the game. It was only in 1936 that the text of an independent treatise (the *Caturaṅga-dīpikā*) describing the game in detail was published for the first time. But no attempt seems to have yet been made to prepare a bibliography of similar other little-known works still existing in manuscript in different libraries. This is, however, essential for a thorough, systematic and critical study of the extant literature on the subject for investigating the origin and development of the game which enjoys a world-wide popularity. With a view therefore to facilitating the preparation of such a bibliography, manuscripts on the subject deposited in the Royal Asiatic Society of Bengal are hereby brought to the notice of scholars.

The Society possesses seven manuscripts of three works, e.g. the *Vilāsa-maṇi-maṅjarī* (8322, IM. 33) composed by Triveṅgaḍācārya under orders of the Peshwa Baji Rao, *Śataraṅja-kutūhala* or *Buddhībala* (8222, 8223, 9737, IM. 3479) in the form of a discourse given by Kṛṣṇa to Rādhā, and the *Caturaṅga-racanā* (?) of Gīridhara (10326), son of Śaṅkara and grandson of Śiva, the Astronomer.

3. M. MAHFUZ-UL HAQ.—*Three valuable Persian Manuscripts of Jāmi's* (1) *Sharḥ-i-Rubā'īyyāt*, (2) *Lawā'ih*, and (3) *Lawāmi'*, transcribed by Sulṭān 'Alī of Mashhad in 882 A.H. (1477-78 A.D.).

Jāmi (d. 898 A.H., 1492-93 A.D.) is among the greatest writers and poets of the 15th century A.D. The three manuscripts which are exhibited are excellent specimens of *Nasta'liq* calligraphy and were transcribed by the greatest calligraphist of his age, viz. Sulṭān 'Alī of Mashhad, who is styled as *Sulṭān-al-Kutūb*, or 'the King of the Calligraphists'. Sulṭān 'Alī was a friend of Jāmi and he finished the transcription of the manuscripts some 15 years before the death of his author-friend. The MS. of *Sharḥ-i-Rubā'īyyāt*, or a commentary on the Ṣūfī quatrains, was transcribed in Ṣafar, 882 A.H. (April, 1477 A.D.); the *Lawā'ih*, or a

collection of Sūfī doctrines with their paraphrases in Rubā'īs (quatrains), was finished in Jumāda I, 882 A.H. (July, 1447 A.D.) and the *Lawāmi'*, which constitutes a commentary on an Arabic Qaṣīda of Ibn al-Fārid, was transcribed on the 3rd Dhū'l-qada, 882 A.H. (6th February, 1478 A.D.).

The manuscripts have beautiful, ornamental vignettes; the text is written in black ink, while the quatrains are written throughout in gold and the Arabic quotations, headings, etc., are given in red, blue or green inks. The MS. is a fine specimen of the art of book-production that flourished in Irān and Central Asia in the 15th century A.D.

The manuscript is preserved in the collection of Maulavi Saiyyid A. S. M. Ṭaifūr, Calcutta.

The Chairman announced the result of the ballot for the election of an Ordinary member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.



AUGUST-NOVEMBER, 1937.

No Meeting.



DECEMBER, 1937.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT:—

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., Vice-President, in the Chair.

Members :

Ahmed, Mr. Shamsuddin
Bose, Mr. M. M.
Chakravarty, Mr. C.
Deb, K., Rai Mahasai

Dugin, Mons. L. S.
Ghosh, Dr. J.
Ghosal, Dr. U. N.
Manen, Mr. Johan van

Sircar, Mr. Ganapati

Visitors :

Das-Gupta, Mr. C. C.

Sarkar, Mr. N. G.

The minutes of the last meeting were read and confirmed.

The General Secretary announced receipt of twenty-one presentations of books, etc., which had been placed on the table for inspection:

The General Secretary reported that the following candidates had been elected Ordinary Members during the recess months, under Rule 7.

(15) *Ghosh, Jyotirmaya*, M.A. (Cal.), Ph.D. (Edin.), F.N.I., Prof. of Mathematics, Presidency College; 1-A, Rupchand Mukherjee Lane, Calcutta.

Proposer: M. Mahfuz-ul Haq.

Seconder: J. N. Mukherjee.

(16) *Bhattacharyya, Narayan Chandra*, M.Sc., Vice-Chairman, Birnagar Municipality, P.O. Birnagar, Dt. Nadia.

Proposer: M. Hidayat Hosain.

Seconder: S. L. Hora.

(17) *Podewils-Durniz, Erdmann Count*, Consul-General for Germany 10, Lower Rawdon Street, Calcutta.

Proposer: A. M. Heron.

Seconder: Johan van Manen.

(18) *Sarawgi, Hulaschand Jain*, Partner, Saligram Rai Chunilal Bahadur & Co., Shillong, Assam.

Proposer: M. Mahfuz-ul Haq.

Seconder: M. Hidayat Hosain.

(19) *Halim, Abdul*, M.A., Lecturer in History, Muslim University Aligarh, U.P.

Proposer: M. Hidayat Hosain.

Seconder: Suniti Kumar Chatterji.

The following candidate was balloted for for election as an Ordinary Member:—

(20) *Chowdhury, Ramananda*, B.A., Sub-deputy Magistrate, P.O. Dhubri, Assam.

Proposer: N. G. Majumdar.

Seconder: M. Mahfuz-ul Haq.

The General Secretary reported the following loss of membership, since the previous meeting, by death:

(2) Sir W. L. Travers (An Ordinary Member, 1929).

(3) B. K. Basu (An Ordinary Member, 1929).

(4) H. K. Mitter (An Ordinary Member, 1929).

(5) Lord Rutherford of Nelson (A special Anniversary Honorary Member, 1934).

(6) Herman Jacobi (An Honorary Fellow, 1930).

(7) Sir J. C. Bose (An Ordinary Member, 1895, Fellow 1912).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(9) Sharda Prasad (An Ordinary Member, 1931).

(10) S. M. Jaffar (An Ordinary Member, 1936).

(11) H. E. C. Wilson (An Ordinary Member, 1934).

(12) W. J. Moloney (An Ordinary Member, 1924).

(13) W. S. Urquhart (An Ordinary Member, 1927).

(14) Mr. Justice S. N. Guha (An Ordinary Member, 1926).

The General Secretary reported that there had been no lapses of election, since the previous meeting.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 45, the Chairman announced that the Council submits for confirmation to the meeting the following change in the composition of the Council made at a Council meeting, since the last Ordinary Monthly Meeting:—

Anthropological Secretary: Dr. B. S. Guha, *vice* Rai Bahadur R. Chanda, resigned.

The appointment was confirmed.

In conformity with Rules 2 and 13, the Chairman announced that the Council had proposed the name of:—

The Rt. Hon'ble Sir John Anderson,
for election as an Honorary Fellow of the Society.

The General Secretary stated the grounds on which the recommendation was made.

The following paper was read.

1. C. C. DAS-GUPTA.—*A bibliography of ancient Indian terra cotta figurines.*

The present paper is the first attempt to give a complete bibliography of ancient Indian terracotta figurines. In the bibliographical section 175 articles, alphabetically arranged according to the authors' names, have been briefly summarized with reference to find-spot, age, description and other important details. Three indexes dealing with author, find-spot, subject and geography have been added.

The following exhibit was shown and commented upon:—

1. CHINTAHARAN CHAKRAVARTI.—*Manuscripts of Tantra work giving inter alia the family history of the royal patron of the author.*

The *Mallādarsa* of Premanidhi Pantha (18th century), author of a number of works on Tantra rituals, is a ritualistic treatise which describes *Yantras* or symbolic diagrams essential in the Tantra form of worship. But the chief interest of the work is historical and not ritualistic. The description in it of each *Yantra* is concluded by a verse describing the author's patron or one of his ancestors, children or relatives referred to as having obtained success through the worship of the *Yantra* under description. It is gathered from these verses, more than 80 in number, that Malaivamma, the patron of our author, who ruled over the hilly country called Rukma, situated on or near the mountain called Tākama, was the son of Ghanasāyāmamalla and Pārvatī (daughter of Virabhadra) and grandson of Sāhamalla. It is stated that he married Mahalavasantā, daughter of Dalasāhi and Subhadra, whose dominions lay on the hill called Khāncī. As many as seven sons were born to the king each of whom has a verse devoted to him. The magnanimity of the king, especially with reference to the author, is extolled and it is definitely asserted that he gave to Premanidhi considerable property and a house in Benares. It is further stated that he consecrated a temple to god Śiva at the confluence of the Maṅgalā and the Gaṇḍakī. He also secured the release of king Mustāh who was made prisoner in Kākaveṇi by Jumaliśvara.

The following communication was made:—

1. L. S. DUGIN.—*Possibilities of the Persian Quatrain.*

A consideration of the variations in the metre, mathematically treated, with literary illustrations.

On account of the lateness of the hour the communication by Mr. Johan van Manen on "*The study of Herachitus*" was postponed to a subsequent meeting.

The Chairman announced the result of the ballot for the election of the Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the medical section had as yet been arranged to be held during the current month.

OBITUARY NOTICES.

DEWAN BAHADUR DR. L. K. ANANTHAKRISHNA IYER.

(1862-1937.)

Dewan Bahadur Dr. L. K. Ananthakrishna Iyer, who died on the 26th February last in his native village of Lakshminarayanapuram, Palghat, at the age of 75, was one of small band of pioneers in Indian Anthropology. He was for several years the Curator of the Museum at Trichur and Superintendent of Ethnography of the Cochin State. His first important work on the Cochin Tribes and Castes was published in 1909 in two volumes which attracted the attention of European and American scholars. He followed this up with his monograph on the Syrian Christians and was entrusted in 1924 with the task of completing and editing the Ethnographic Survey of Mysore begun by the late Dewan Bahadur H. V. Nanjundayya in 1903. The large mass of materials on the 34 tribes and castes of Mysore collected by Dewan Bahadur Nanjundayya was sifted and edited by Dr. Iyer who made also large additions, and published the work in four volumes.

Dr. Iyer's reputation as an Anthropologist led to his being invited by the late Sir Ashutosh Mookerjee to organise the Department of Anthropology in the Calcutta University of which he remained the Senior Lecturer and Head of the Department till his retirement in 1932. During his tenure in the Calcutta University he conducted several field trips with advanced students of Anthropology, and published some important papers on the social and religious institutions of the peoples of India.

Dr. Iyer visited Europe in 1934 when he was given the degree of Hon. Doc. of Medicine of the Breslau University and was elected an Honorary Member of the International Congress of Anthropology, and also one of the Vice-Chairmen of the Sections of Ethnography and Sociology. During this trip Dr. Iyer visited Italy, France and Germany, besides England and delivered several lectures in these countries. After his return from Europe, he was associated with Prof. Cipriani of Italy in carrying out some important anthropological investigations among the Coorgs.

Dr. Iyer was a corresponding Member of the Royal Anthropological Institute of Great Britain and Ireland, the American Bureau of Ethnology and the Anthropological Societies of

Florence and Vienna. He was also a Foundation Fellow of the National Institute of Sciences of India, the Indian Academy of Sciences of Bangalore and Vice-President of the newly founded Indian Institute of Anthropology. He was also an Associate Member of the Royal Asiatic Society of Bengal from 1910–1928.

In his private life the late Dewan Bahadur was very amiable and charming in his manners and his habits were those of a simple orthodox Brahmin.

By his death India has lost a distinguished Indian who made important contributions to our knowledge of the habits and customs of the primitive tribes of India.

B. S. GUHA.

(Read in the Ordinary Monthly Meeting on 3rd May, 1937.)

KAMAKHYANATH TARKAVAGISH.

(1842–1936.)

Through the death of Mahāmahopādhyāya Pandit Kamakhyanath Tarkavagish who was well known for his deep erudition in *Navya Nyāya* or the Later School of Indian Logic, sanskrit scholarship of the old and traditional type has sustained a heavy loss. It is true that he enjoyed a long life and died on the 10th March last at the good old age of 94, but it is painful to think that it will be difficult to fill the void caused by his death. As a matter of fact, the traditional type of scholarship—deep and thorough—is fast dying out in every part of India.

The depth of scholarship and the range of studies of old type Pandits like Pandit Kamakhyanath cannot be judged by the literary output left by them, for they spent most of their time in teaching students and disseminating their learning through them. The original ideas of master-minds and the results of the life-long studies—intensive as well as extensive—of great scholars in India, more often than not spread from generation to generation through the medium of successive batches of pupils. So the literary production of Kamakhyanath too, as usual, cannot be supposed to have been in any way proportionate to the extent of his scholarship. He also, like his predecessors and contemporaries, devoted the major portion of his life to teaching in his private *tol*, in the Government Sanskrit College of Calcutta or in the *Pucca tol* (premier Sanskrit School) of Navadvip (Nuddea) where he was Professor to the end of his life. What was surprising to all was his wonderful capacity of efficient teaching in abstruse Logic, which he fortunately retained till almost the time of his death. His principal literary

contributions consist of two original commentaries and a number of editions of medieval Sanskrit texts. His *Kusumāñjali-vyākhyāvivṛti* (a sub-commentary on Haridāsa's commentary on the famous *Nyāyakusumāñjali* of Udayana) and his *Sāṃkhyā-dīpani* (commentary on the *Sāṃkhyakārikā* of Īśvarakṛṣṇa) were published respectively in 1892 and 1900. Of these the first one with which he made his *debut* in the literary field, earned for him the spontaneous appreciation from all students of *nyāya*. He came to be associated with the work of editing sanskrit texts in the Asiatic Society of Bengal as early as the year 1879 when the *Caturvargacintāmaṇi* (Vol. II, Pt. II) of the *Bibliotheca Indica* series came to be published, with the help of Pandit Kamakhyānath Tarkaratna (a title that is found to have been used down to the time of the publication of the first few fascicles of the *Tattvacintāmaṇi*) and Pandit Yogesvara Smritiratna, on the death of the original editor Pandit Bharat Chandra Siromani, a well-known scholar of *dharmaśāstra* of the time. Kamakhyānath along with his collaborator Yogesvara was also in charge of the publication in 1887 and 1895 of the next two parts of the work (Vol. III, parts I and II) manuscripts of which portion were not available during the life-time of the previous editor. Shortly after this he came to be associated with the editorial work of another publication in the series, the fifth and last fasciculus of the *Nītisāra* (published in 1884), of which the text portion, complete in two fascicles, was edited by Rajendralal Mitra, while of the three fascicles of the commentary, one each, was edited and seen through the press by Pandits Ramanarayana, Jaganmohana and Kamakhyānath Tarkaratna. These editions of works on smṛiti and politics in which the Mahāmahopādhyāya had not specialized, could not, however, be expected to contain sufficient evidence of the extent of his scholarship which is amply indicated by his *magnum opus*, the edition of the *Tattvacintāmaṇi*. This latter work was also edited by him in the *Bibliotheca Indica* series. It was for about thirty years that he was busy editing this difficult standard treatise on *navya nyāya* along with a very valuable portion of the extensive exegetical literature that grew up round it. It stands to the credit of the Mahāmahopādhyāya that it was he who for the first time made an attempt to bring out the whole of this important medieval work, only sections of which were popular among scholars, with a running commentary. It was originally his intention to publish the text with the commentary of Mathurānātha Tarkavāgīśa but he had to remain satisfied with the commentaries of others (Rucidatta, Jayadeva, and Kṛṣṇakānta) on portions of the work on which Mathurānātha's commentary was not available. Thus, Jayadeva's commentary was published on the sections on *samavāyavāda*, *anupalabdhyapramāṇya*°, *abhāva*°, *pratyakṣakāraṇa*°, *maṇu*°, *anuvyavasāya*°, *nirvikalpaka*° in the *Pratyakṣa* portion, the *īśvarānumāna* section in the *Anumāna* portion, and the *śaktivāda*,

samāsa°, ākhyāta°, dhātu°, upasarga°, pramāṇacatuṣṭaya-prāmāṇya° in the Śabda portion of the work. Extracts from the commentary of Rucidatta were also added on the above-mentioned as well as some other sections (ucchannapracchanna-vāda, vidhi° and apūrva°) of the Śabda portion. The Upamāna portion of the work was issued with the commentary of Kṛṣṇa-kānta whose commentary on the Śabdaśaktiprakāśikā of Jagadīśa is well-known. When this work was finished in five big volumes (of about 4,000 closely printed pages Demy Octavo) the Mahāmahopādhyāya undertook the task of bringing out further important exegetical materials on this highly important text. But his edition of the *Tattvacintāmaṇidīdhitiṣivṛti* which contains the famous commentary of Raghunātha Śiromaṇi and a sub-commentary thereon by Gadādhara was not completed though about 1,200 pages had been printed off. Special mention should be made in this connection of the valuable notes, which give eloquent testimony to his depth of learning, added here and there by the Mahāmahopādhyāya.

In recognition of his vast scholarship the title of Mahāmahopādhyāya was conferred on Pandit Kamakhyanath by the Government of India in 1900 and the Society honoured him by electing him an Honorary Fellow in September, 1911—an honour that was given to two other Pandits¹ prior to him, Mahāmahopādhyāya Chandra Kanta Tarkalankara who was elected an Honorary Member (a name used before the introduction of the designation 'Honorary Fellow') on August 4, 1894 and Pandit Satyavrata Samasrami who was elected an Honorary Fellow on August 10, 1910.

CHINTAHARAN CHAKRAVARTI.

(Read in the Ordinary Monthly Meeting on 3rd May, 1937.)

HERMANN JACOBI.

(1850–1937.)

With the death of Hermann Jacobi on October 19, 1937, at the age of eighty-eighth year, Indology lost one of its most distinguished votaries. Jacobi was born in 1850 and studied Sanskrit and Comparative Philology in the Universities of Berlin and Bonn. After serving as Professor of Sanskrit at Münster and Kiel he returned to Bonn as Professor of Sanskrit and adorned that chair almost till his death.

¹ Accounts of the literary activities of these two Pandits will be found in Obituary Notices published in JPASB, 1910, p. cxv, 1911, p. cxiii.

Jacobi travelled in England and in India, and though a profound scholar of Sanskrit in all its branches, Jainism was his special subject. Among his earlier works mention may be made of *Āyāraṅga Sutta* for the Pali Text Society and the publication of his well-known text-book, *Ausgewählte Erzählungen*, greatly facilitated the study of Jaina Prakrit. His translation of Umāsvāmin's *Tattvārthādhigamasūtra* and his edition of the *Samarāṅgacakāḥ* are works familiar to all Indologists. His paper on the Yoga system (SBPAW, 1929) is considered by competent authorities as one of the most brilliant pieces of research on any branch of Indian Philosophy.

Jacobi's works were marked throughout by great thoroughness and accuracy of details and he was without doubt one of the most distinguished of European scholars who devoted their lives to Sanskrit literature and philosophy.

B. S. GUHA.

**PROCEEDINGS OF THE MEDICAL SECTION
MEETINGS, 1937.**

No meeting of the Medical Section was held during the year.

INDEX

YEAR-BOOK ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME IV, 1938

A

- Accommodation, 23, 61.
Adiantum sp., 12.
 " *Tenerum* S. W. *var. Farleyense*, 12.
 Advertising, 61.
 Agencies, 28.
 Air-breathing Fishes of India, with special organs for aerial respiration, 16.
 Alimentary canal of *Epilachna Indica* (*Coccinellidæ: Coleoptera*), with a discussion on the activities of the mid-gut epithelium, 110.
Amphipsycho indica Martynov (*Trichoptera*), 15.
 Annandale Memorial Medal, 22.
 —recipients of, 107.
 Annual Address, 1937-38, 9.
 Annual Meeting, 61.
 " " Exhibition, 11.
 " " 1938, proceedings of, 5.
 Annual Report for 1937, 16.
 Anthropology, 30.
 Arabic biographical works in the Society's Library, 120.
 Artistic and Historical Possessions, 23.
 Associate Members, 16, 61.
 " " List of, 100.
 At Home, 61.

B

- Banerjee, K. Abnormal behaviour of coliform organism in a case of acute bacillary dysentery, 30.
 Banerji, S. K. The Qūwat-ul-Islām, the oldest Mosque in Delhi, 124.
 Bannerjee, G. N. Black stone Buddha (Bodh Gaya), 11.
 —Bronze image of 'Kinnari'—Cambodia, 11.
 —Buddha—gilt on terra-cotta, 11.

- Bannerjee, G. N. Buddha in meditation in black stone, 11.
 —Buddhist image with six hands and sakti in arms, 11.
 —Mother of pearl stone (Siam), 11.
 —A palm leaf book cover (Orissa), 11.
 —One piece ornamental brick (Rajshahi, Bengal), 11.
 —Sand stone image of the body of a man, 11.
 —Wooden mask of Gadur (Bali Island), 11.
 Baptist Mission Press, 28.
 Barclay Memorial Medal, 22.
 —recipients of, 106.
 Bibliotheca Indica, 31, 62.
 Biswas, Kalipada. *Adiantum sp.*, 12.
 —*Adiantum Tenerum* S. W. *var. Farleyense*, 12.
 —*Cinchona Ledgeriana Wedd.*, 11.
 —Common Diatoms of the Loktak Lake, Manipur, Assam, 118.
 —*Cotyledon gibbiflora Moc. and Sessc.*, 12.
 —*Cypripedium Venustum Wall.*, 12.
 —*Echinocactus*, 12.
 —*Meconopsis nepalensis DC.* and *Meconopsis Wallichii Hook.*, 11.
 —*Nepenthus Khasiana Hk.f.*, 11.
 —*Rhipsalis Cassytha Gartin* (Naked *Rhipsalis*), 12.
 —*Salvinia auriculata Aublet*, 11.
 —*Senecio verticillatus Klatt*, 11.
 Black stone Buddha (Bodh Gaya), 11.
 Bodding's Santal Dictionary, 123.
 Book cover (modern)—Orissa, palm leaf, 11.
 Brass utensils with incised designs, three old, 125.

Brown, Percy. Pages from an old sketch book, 12.
 Buddha—gilt on terra-cotta (Siam), 11.
 Buddha in meditation in black stone, 11.
 Buddhist image with six hands and sakti in arms, 11.
 Budget Estimates for 1938, 27.
 Building, 62.

C

Chakravarti, Chintaharan. Manuscript of a commentary on a Smṛti work attributed to a lady, 13.
 —Manuscripts copied by and for ladies, 13.
 —Manuscripts of Sanskrit works on the Persian language composed at the instance of Muhammadan rulers, 12.
 —MSS. of Tantra work giving inter alia the family history of the royal patron of the author 29, 129.
 —Obituary of Kamakhyanath Tarkavagish, 132.
 —The Society's Collection of Manuscripts of Sanskrit Works on the Game of Chess, 29, 126.
 —The Society's collection of MSS. of the Tantrasāra in non-Bengali Scripts, 29, 120.
 Chatterji, Suniti Kumar. Three old brass utensils with incised designs, 29, 125.
 Chaudhuri, R. N. Exhibition of clinical cases:—(a) A case of tubarachnoid hæmorrhage, (b) A case of spirochætal jaundice, 30.
 Child-world and the Child in Araby, 120.
 Cinchona Ledgeriana Wedd, 11.
 Coliform organism in a case of acute bacillary dysentery, abnormal behaviour of, 30.
 Committees, 62.
 " of Council, 18.
 Communications, 29.
 Condolences, 18.
 Congratulations, 21.
 " and Thanks, 62.
 Cotyledon gibbiflora Moc. and Sessc., 12.
 Council, 18, 63.
 " Abstract Proceedings, 1937, 61.

Council Officers and Members, of the Royal Asiatic Society of Bengal during the year 1937, 75.
 " Officers and Members, of the Royal Asiatic Society of Bengal elected for the year 1938, 76.
 Cypripedium Venustum Wall, 12.

D

Das-Gupta, C. C. A bibliography of ancient Indian terra cotta figurines, 129.
 De, J. C. The development of the theory of divine nature of Kings in Assam, 117.
 Deaths, 16.
 Deputations, 21.
 Dhammapada, a difficult verse in, 111.
 Diatoms of the Loktak Lake, Manipur, Assam, 118.
 Dugin, L. S. Possibilities of the Persian Quatrain, 29, 129.

E

Earthworm population and the formation of castings in Rangoon, Burma, 117.
 Echinocactus, 12.
 Elliot Prize for Scientific Research, 22.
 —Gold Medal and Cash, recipients of, 106.
 Exhibition of clinical cases:—(a) A case of tubarachnoid hæmorrhage, (b) A case of spirochætal jaundice, 30.
 Exhibits, 29.

F

Familiar animals in the fossil state, 14.
 Fans, 64.
 Filariasis in Travancore, 30.
 Finance, 24, 65.
 " Committee, 19.
 Fishes of Northern Bengal, 122.
 Firdausi's Shahnama, a glossary and concordance to, 122.
 Fossil and other evidence of physical conditions in past geological times, 14.

G

Gadur,—(Bali Island), wooden mask of, 11.

- Gangoly, O. C. Two original Moghul Portraits, 13.
 Gates, G. E. See Kyaw, M. H., and Gates, G. E.
 General Lectures, 30.
 General Secretary. The Society's Publications of 1937, 15.
 —Some recent publications by Members of the Society, 15.
 Geological Survey of India. Familiar animals in the fossil state, 14.
 —Fossil and other evidence of physical conditions in past geological times, 14.
 —Serial drawings illustrating the progressive evolution of: (1) the elephant, (2) the horse, 13.
 Goetz, Dr. Hermann. The History of Mughal Civilization as reflected in its Art, 30.
 Guha, B. S. Obituary of Dewan Bahadur Dr. L. K. Anantakrishna Iyer, 131.
 —Obituary of Hermann Jacobi, 134.

H

- Haq, M. Mahfuz-ul. A valuable MS. of an Urdū romantic Poem (*Mathnawī*) composed by Sharaf-un-Nisā, a lady of Murshidābād (Bengal), 29, 110.
 —Three valuable Persian MSS. of Jāmi's: (1) *Sharḥ-i-Rubā'īyyāt*, (2) *Lawā'ih*, and (3) *Lawāmi*, transcribed by Sultān 'Alī of Mashhad in 882 A.H. (1477-78 A.D.), 29, 126.
 Harley, A. H. The Child-world and the Child in Araby, 120.
 —Marwān B. Abī Ḥafṣah: a Post-classical Poet, 110.
 Honorary Fellows, 17, 67.
 —List of, 102.
 Honours, 21.
 Hosain, M. Hidayat. Arabic biographical works in the Society's Library, 29, 120.
 —Kitāb al-I'lān; a very rare and original MS. in the Society's collection, 29, 120.

I

- Indian Museum, 20.
 Indian Science Congress, 19.
 " " " " Calcutta Medal, 23.

- Indian Science Congress Calcutta Medal, recipients of, 107.
 Institutional Members, 17.
 " " " " List of, 101.
 Invertebrate Gallery of the Indian Museum, a new exhibit in, 14.
 Iyengar, A. O. T. Filariasis in Travancore, 30.
 Iyer, Dewan Bahadur Dr. L. K. Anantakrishna. Obituary of, 131.

J

- Jacobi, Hermann. Obituary of, 134.
 Jewish Communities of Cochin, India: their racial affinities, 115.
 Joy Gobind Law Memorial Medal, 22.
 —recipients of, 107.

K

- Kamala Lectureship, 20.
 Kings in Assam, the development of the theory of divine nature of, 117.
 'Kinnari'—(Cambodia), bronze image of, 11.
 Kitāb al-I'lān; a very rare and original MS. in the Society's collection, 120.
 Kramrisch, Stella. Shadowplay, 14.
 Kyaw, M. H. and Gates, G. E. The earthworm population and the formation of castings in Rangoon, Burma, 117.

L

- Lectures, 67.
 Library, 24.
 Life-members, 16.
 " " (Chronological) list of, 99.

M

- Macfarlane, (Mrs.) Eileen J. W. The Jewish communities of Cochin, India: their racial affinities, 115.
 Manen, Johan van. Bodding's Santal Dictionary, 123.
 —A difficult verse in the Dhammapada, 29, 111.
 —A glossary and concordance to Firdausi's Shahnama, 29, 122.

- Manen, Johan van. Two recent publications for which MSS. from the Society's collections have been utilized, 29, 122.
- Manuscripts, Arabic and Persian, Search and Catalogue, 31.
- „ loan of, 67.
- „ Sanskrit, 31.
- „ 12,000 Sanskrit MSS. from the Government of India, hitherto preserved in the Archaeological Section of the Indian Museum, a new loan collection of, 111.
- „ utilized from the Society's collections for two recent publications, 122.
- „ of a commentary on a Smṛti work attributed to a lady, 13.
- „ copied by and for ladies, 13.
- „ three valuable Persian, of Jāmi's: (1) Sharh-i-Rubā'iyāt, (2) Lawā'ih, and (3) Lawāmi', transcribed by Sulṭān 'Alī of Mashhad in 882 A.H. (1477-78 A.D.), 126.
- „ of Sanskrit works on the Game of Chess in the Society's collection, 126.
- „ of Sanskrit works on the Persian language composed at the instance of Muḥammadan rulers, 12.
- „ of Tantra work giving inter alia the family history of the royal patron of the author, 129.
- „ of the Tantrasāra in non-Bengali scripts in the Society's collection, 120.
- „ of an Urdū romantic Poem (Mathnawī) composed by Sharaf-un-Nisā, a lady of Murshidābād, 110.
- Marwān B. Abī Ḥafṣah: a Post-classical Poet, 110.
- Meconopsis nepalensis DC. and Meconopsis Wallichii Hook, 11.
- Medical Section, 30.
- „ „ Meetings, 1937, proceedings of, 137.
- Meetings, 29, 69.
- Members, loss of, during 1936, 104.
- „ Non-resident, 16.
- „ Ordinary, 16.
- „ Ordinary, List of, 77.
- „ Ordinary, (Chronological), List of, 94.
- Membership List, 16.
- „ Statistics, 33.
- Memorial Medals, 69.
- Miscellaneous, 70.
- Moghul Portraits, two original, 13.
- Mother of pearl stone (Siam), 11.
- Mughal civilization as reflected in its Art, history of, 30.
- Mukherji, D. D. An abnormal brown trout (*Salmo fario Linn.*) showing eversion of stomach into the pharyngeal cavity, 117.
- N
- Nair, K. Krishnan. An abnormal specimen of *Silurus Cochinchinensis Cuv. and Val.* Showing eversion of stomach into the pharyngeal cavity, 117.
- National Institute of Sciences of India, 21, 70.
- Natural History: Biology, 30.
- „ „ : Physical Science, 30.
- Nepenthus Khasiana Hk.f., 11.
- Numismatics, 32.
- O
- Obituary, 17, 70.
- „ Notices, 131.
- Office, 19.
- „ Bearers, 18.
- Officers and Members of Council, 1938, 10.
- Ordinary Fellows, 17, 65.
- „ „ List of, 101.
- Ordinary Monthly Meetings, Proceedings of, 109.
- Ornamental brick (Rajshahi, Bengal), one piece, 11.
- P
- Panja, D. Treatment of Tuberculosis Verrucosa cutis by creosote and salicylic acid, 30.
- Panja, G. A Pathogenic strain of staphylococcus citreus, 30.
- Pathogenic strain of staphylococcus citreus, 30.
- Patron, 71.
- Patrons of the Royal Asiatic Society of Bengal, List of, 74.
- Paul Johannes Brühl Memorial Medal, 23.
- recipients of, 107.
- Persian Quatrain, possibilities of, 129.

Philology, 30.

Pradhan, S. The alimentary canal of *Epilachna Indica* (*Coccinellidae* : *Coleoptera*), with a discussion on the activities of the mid-gut epithelium, 110.

Pramatha Nath Bose Memorial Medal, 23.

Presentations, Donations, and Legacies, 23.

Production of eggs in flies, some unknown factors, 30.

Provident Fund, 71.

Publications, 28, 72.

„ exchange of, 29, 64.

„ issued by the Royal Asiatic Society of Bengal during 1937, List of, 34.

„ by Members of the Society, 15.

Q

Qūwat-ul-Islām, the oldest Mosque in Delhi, 124.

R

Receipts and Disbursements of the Royal Asiatic Society of Bengal for the year 1937, abstract statement of, 35.

Representation, 72.

Revista Degli Studi Orientali, Rome, 29.

Rhipsalis Cassytha *Gärtn* (Naked Rhipsalis), 12.

Roy, D. N. On some unknown factors in the production of eggs in flies, 30.

Rule, 38, 16.

Rules and Regulations, 19.

Rural customs of Dinajpur District, some notes on, 118.

S

Salmo fario Linn. showing eversion of stomach into the pharyngeal cavity, an abnormal brown trout, 117.

Salvinia auriculata Aublet, 11.

Sand stone image of the body of a man, 11.

Sen, K. Some notes on rural customs of Dinajpur District, 118.

Senecio verticillatus Klatt, 11.

Serial drawings illustrating the progressive evolution of : (1) the elephant, (2) the horse, 13.

Shaw, G. E., and Shebbeare, E. O. The Fishes of Northern Bengal, 122.

Shebbeare, E. O. See Shaw, G. E. and Shebbeare, E. O.

Silurus Cochinchinensis Cuv. and Val. Showing eversion of stomach into the pharyngeal cavity, an abnormal specimen of, 117.

Sir William Jones Memorial Medal, 22.

—recipients of, 107.

Shadowplay, 14.

Sketch book, pages from an old, 12.

Social Functions, 22.

Society's Premises and Property, 23.

„ Publications of 1937, 15.

Special Anniversary Honorary Members, 17.

Special Anniversary Honorary Members, List of, 100.

Staff, 72.

Sword-fish, a piece of planking and copper sheathing, from the bottom of the Barque Adele, pierced by the sword of, 15.

T

Tarkavagish, Kamakhyanath. Obituary of, 132.

Terra cotta figurines, a bibliography of ancient Indian, 129.

Tuberculosis verrucosa cutis by creasote and salicylic acid, treatment of, 30.

V

Visits, 21.

Z

Zoological Survey of India. Air-breathing Fishes of India, with special organs for aerial respiration, 15.

—*Amphipsyche indica* Martynov (*Trichoptera*), 15.

—A new Exhibit in the Invertebrate Gallery of the Indian Museum, 14.

—A piece of planking and copper sheathing, from the bottom of the Barque Adele, pierced by the sword of a Sword-fish, 15.

Date of Publication **September, 1939.**

Pp. 1-138.

(Complete.)

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL
FOR 1938
[Vol. V, 1939]



PRINTED AT THE BAPTIST MISSION PRESS
PUBLISHED BY THE ROYAL ASIATIC SOCIETY OF BENGAL

CALCUTTA
1940

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME V
1939

7936

Year-Book, Royal Asiatic Society of Bengal, 1938

CONTENTS

	<i>Page</i>
1. Proceedings, Annual Meeting, 1939	5
Annual Address, 1938-39	9
Officers and Members of Council, 1939	16
Exhibition, Annual Meeting	17
Annual Report, 1938	24
Membership Statistics, 1909-1938	40
List of Publications, 1938	41
Abstract Statement of Receipts and Disbursements, 1938 ..	43
Abstract Proceedings Council, 1938	69
2. List of Patrons, Officers, Council Members, etc., 1938 ..	89
Patrons	90
Officers and Members of Council, 1938	91
Officers and Members of Council, 1939	92
Ordinary Members, alphabetically	93
Ordinary Members, chronologically	110
Life Members, chronologically	115
Special Anniversary Honorary Members	116
Associate Members	116
Institutional Members	117
Ordinary Fellows	117
Honorary Fellows	118
Changes in Membership	119
Loss of Members, 1938	119
Elliott Gold Medal, recipients	121
Barclay Memorial Medal, recipients	121
Sir William Jones Memorial Medal, recipients	122
Annandale Memorial Medal, recipients	122
Joy Gobind Law Memorial Medal, recipients	122
Paul Johannes Brühl Memorial Medal, recipients	122
Indian Science Congress Medal, Calcutta, recipients	122
3. Proceedings, Ordinary Monthly Meetings, 1938	123
Obituary Notices	152
4. Proceedings, Medical Section Meetings, 1938	163

PROCEEDINGS OF THE ANNUAL MEETING, 1939.

FEBRUARY.

The Annual Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th February, 1939, at 5 P.M.

PRESENT.

SIR DAVID EZRA, KT., F.Z.S. M.B.O.U., President, in the Chair.

Members :

Abdul Ali, Mr. A. F. M.	Ghatak, Mr. J. C.
Agharkar, Dr. S. P.	Ghose, Mr. B. C.
Asari, Mr. J. R.	Ghosh, Dr. P. N.
Bagchi, Rai Bahadur K. N.	Ghosh, Mr. Sushil Chandra
Banerjee Mr. J. N.	Ghosal, Dr. U. N.
Banerjee, Mr. S.	Groth, Mr. E. M.
Basu, Dr. I. B.	Guha, Dr. B. S.
Basu, Mr. N. K.	Haq, Mr. M. Mahfuz-ul
Bhandarkar, Dr. D. R.	Hemraj, Pt. Rajguru
Biswas, Hon'ble Mr. Justice C. C.	Heron, Dr. A. M.
Biswas, Dr. Kalipada	Hirtzel, Mr. M. A. F.
Bose, Mr. M. M.	Hobbs, Mr. H.
Bose, Mr. S. M.	Hora, Dr. S. L.
Brahmachari Dr. P. N.	Hosain, Dr. M. H.
Brahmachari Sir U. N.	Jacob, Mr. J. R.
Brahmachary, Rai Bahadur S. C.	Jenkins, Dr. W. A.
Brandt, Dr. Anina	Khan, Mr. R. R.
Brown, Mr. Percy	Kramrisch, Dr. Stella
Campbell Sir George	Law, Dr. Bimala Charan
Chakladar, Mr. H. C.	Law Mr P. C.
Chatterjee Mr. K. C.	Law, Dr. S. C.
Chatterjee, Mr. K. N.	Lort-Williams, Hon'ble Mr. Justice
Chatterjee, Dr. Manomohan	John, Kt.
Chatterjee, Dr. S. C.	Mahindra, Mr. K. C.
Chatterji, Mr. D. C.	Mahtab, Maharajadhiraja Sir B. C.
Chatterji Mr. N. C.	Mahtab, Maharajkumar U. C.
Chatterji, Dr. S. K.	Majumdar, Mr. N. K.
Chattopadhyaya, Mr. K. P.	Manen, Mr. Johan van
Chaudhuri, Mr. S.	Mitter, Rai Bahadur K. N.
Chopra, Dr. B. N.	Mitter, Mr. S. C.
Chopra, Bt.-Col. R. N.	Mookerjee, Mr. B. G.
Das, Rai Bahadur A. N.	Mookerjee, Mr. R. P.
Das-Gupta, Mr. C. C.	Mukherjee, Dr. J. N.
Datta, Mr. H. N.	Mukherjee, Mr. P. K.
De, Lt.-Col. J. C.	Mukherjee, Rai Bahadur Pannalal
Dutt, Mr. N. N.	Mullick, Mr. M. N.
Dutt, Mr. N.	Nandy, Maharaja S. C.
Eekhout, Jhr. P. J.	Neogi, Dr. P.
Faroqui, Nawab Sir K. G. M.	Olpadvala, Mr. E. S.
Flury Mr. F. C.	Pasricha, Major C. L.
Fox Dr. C. S.	Prashad, Dr. Baini
Galstaun, Mr. J. C.	Rahman, Sheikh Kalimur
Gangoly, Mr. O. C.	Ramachandran, Mr. T. R.

Rankin, Mr. E. H.
 Rao, Mr. U. S.
 Rossetti, Mr. F. F.
 Saha, Dr. M. N.
 Sahni, Dr. M. R.
 Seal, Mr. S. C.
 Sen, Mr. D. N.
 Siddiqi, Dr. M. Z.

Singhi, Mr. Bahadur Singh
 Sircar, Mr. Ganapati
 Sircar, Sir Nilratan
 Sufi, Mr. M. E.
 Tarkatirtha, Pt. B.
 Vedantatirtha, Mr. V.
 Vidyabhusana, Mr. A. C.
 White, Mr. J. C.

and others.

Visitors :

Banerjee, Mr. G. C.
 Banerjee, Mr. G. N.
 Banerjee, Mr. M.
 Basak, Dr. M. N.
 Basu, Mr. S. R.
 Biswas, Mrs. K.
 Biswas, Mr. P.
 Bose, Mrs. Kiran
 Brown, Mrs. Percy
 Chatterjee, Dr. B. K.
 Chaudhury, Mr. M. A. A. Khan
 Chintamani, Mr. T. R.
 Colson, Mr. L. H.
 Derbyshire, Lady
 Ellis, Mr. N. A.
 Ezra, Lady
 Ghosh, Mr. S.
 Ghosh-Maulik, Mr. S. C.
 Guha, Mrs. Uma
 Henson, Mr. A. D.
 Home, Mr. Amal
 Hoskins, Capt. G. D.
 Hoskins, Mrs.
 Ibrahim, Mr. S.

Ingram, Rev. J. W.
 Ingram, Mrs.
 Lawrence, Miss C. M.
 Lawrie, Mr. C. A.
 Lewis, Mr. H. M.
 Lewis, Mrs.
 Longley, P. C.
 Longley, Mrs.
 Macdonald, Mr. John J.
 Macdonald, Mr. J.
 Magnus, Mr. C. B.
 Malek, Mr. O. J. M.
 Maharaj, Mr. B. W. Somme
 Misra, Mr. K.
 Mookerjee, Mr. K. K.
 Paranjpe, Mr. H. P.
 Pausch, Dr. W.
 Pausch, Mrs.
 Raikut, Hon'ble Mr. P. D.
 Ray, Mr. S. N.
 Sarkar, Sir Jadunath
 Sen-Gupta, Mr. N. C.
 Sharan, Mr. I. B.
 Verstraeten, Rev. Fr. A., S. J.

and many others.

The President for 1938 declared the Annual Meeting open and said:—

‘LADIES AND GENTLEMEN,

I have to my great regret to announce that His Excellency the Governor of Bengal, our Patron, is prevented from attending our meeting this evening on account of illness. He has however expressed his good wishes for the success of our function, and it is my pleasant duty to communicate this message to you. I propose that we send a message to him wishing him a speedy and entire recovery.

‘Voting papers for the election of Council for 1939, as well as voting papers for the election of Ordinary Fellows proposed by Council will be distributed to all the Ordinary Members present. I request the Ordinary Members present to deliver their votes to the collection box which will be sent round to them’, and appointed Mr. H. Hobbs and Dr. A. M. Heron to be scrutineers.

The President then called upon the General Secretary to present the Annual Report for 1938.

The General Secretary then presented the Report (vide page 24) with the following addition on page 36, at the end of Section 37, dealing with Finance:—

‘Since the budget for 1939 was framed and passed in December 1938, intimation has been received from the Government of India to the effect that the grant made by them to the Society “for the cataloguing and binding of Arabic and Persian Manuscripts acquired by the Society; for the purchase of further Manuscripts; and for the preparation of notices of Arabic and Persian Manuscripts found in various libraries in India”,—which grant has hitherto been an annual one of Rs.5,000 sanctioned for five years, has been reduced to an annual grant of Rs.2,500 sanctioned for two years, viz. 1939-40 and 1940-41. This will entail a commensurate modification of the budget heads involved.’

After the presentation of the Annual Report, the President delivered the Annual Address, (vide page 9).

After the reading of the Annual Address, the General Secretary transmitted to the President the results of the Council election. The President thereupon announced the results of the Council election (vide page 16).

The President for 1939 then briefly thanked the Society for his re-election as follows:—

‘LADIES AND GENTLEMEN,

I have to thank you most heartily for the honour you have done me by re-electing me your President for the ensuing year.

I will add no words other than those necessary to say that it will be my strenuous endeavour during the new year to serve the Society so that its usefulness, its renown and its influence may grow, and the cause of learning in this land and beyond its borders may be truly promoted.’

The President for 1939 then made the following announcements:—

‘I have now great pleasure in announcing that, having heard the report of the scrutineers, I declare the following Ordinary Members:—

Dr. C. S. Fox,
Dr. B. S. Guha.

duly elected Ordinary Fellows of the Royal Asiatic Society of Bengal.

The Elliott Prize for scientific research was instituted in 1892 by the late Sir Charles Elliott, the then Lieutenant-Governor of Bengal, to encourage original research amongst the younger generation in Bengal, Bihar and Orissa. The first award was made in 1893 and the prize was since then given by preference for research leading to discoveries likely to develop the industrial

resources of Bengal, Bihar and Orissa. In rotation four different branches of enquiry form the subject of the prize, and last year the prize was for Physics.

I have to announce that papers from three candidates have been received in competition for the prize for 1938, and the Trustees have judged that no paper is of sufficient merit to justify the award of the prize for 1938.

The prize for 1939 will be for Geology and Biology (including Pathology and Physiology) regarding which a detailed announcement has been published in the *Calcutta, Bihar, and Orissa Gazettes*.

My next announcement regards the Brühl Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the knowledge of Asiatic Botany. This year the medal is awarded to Sir David Prain, Kt., F.R.S., late Director, Royal Botanic Gardens, Kew, Surrey, England.

My next announcement regards the Joy Gobind Law Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the knowledge of Zoology in Asia. This year the medal is awarded to Dr. Bains Prashad, D.Sc., F.R.S.E., Director, Zoological Survey of India.'

The President then handed over the medal to Dr. Prashad.

Afterwards, the President made the final announcement, as follows:—

‘LADIES AND GENTLEMEN,

In declaring the Annual Meeting dissolved, I now invite the visitors present to examine a collection of exhibits at the other end of the hall, and the members present to re-assemble around this table for an Ordinary Monthly Meeting for the election of members and transaction of business’. (For a descriptive list of the exhibits, see page 17).

ANNUAL ADDRESS, 1938-39.

Though bound by a long tradition, it is incumbent on me to address you this evening on some subject of interest to such as have joined in the labours, burdens and privileges of our Society, there is no traditional prescription limiting the choice of my subject. You will not expect from me, a man of business, however much interested in certain branches of natural history, a discourse of a technical nature embodying the results of research or reviewing some field of scientific enquiry. My choice does not go out in such directions, believing as I do in the ancient saying *ne sutor ultra crepidam*. The most natural way for me to fulfil my task will be to place before you certain reflections which have arisen within me through my experience as your President during the year which lies behind us.

This old Society of ours is in many ways unique, of a character distinct from that of most learned Societies in the world. Founded over a century and a half ago, far away from the great centres of modern learning and all the resources of information such as are at the disposal of the student and scholar in the capitals and academical seats of Europe and America, its career began in a period when the modern specialization of learning had not yet moved towards its present extreme. It was a time when the specialists and the professional scholars still worked in close contact with the non-specialist man of culture, and up to this very day this tradition has been maintained in our Society, as expressed in that formula used in the application form for membership as the sole requirement for eligibility to election: 'The undersigned is anxious to promote the progress of science and literature.'

This tradition has been so well-maintained that even today about three-fourths of our members are dilettantes, and only one-fourth specialists. That this condition has been of value to our activities seems to me a fact not open to doubt. A not inconsiderable proportion of our scholarly output has been produced by administrators, lawyers, missionaries and even business men, and the most brilliant example, perhaps, of such men professionally engaged in work other than scholarship, is that of our great founder, Sir William Jones, who was a lawyer by profession, and an Orientalist in his spare time. Three great advantages have accrued from the fact. In the first place it has brought to the Society a wider support, both financial and social, than a severely restricted membership could ever have given. Secondly it has, so to say, humanized our work and made it on the whole readable, intelligible and acceptable for the ordinary intelligent non-specialist. Thirdly it has avoided the tendency

inherent in all professional research, towards over-specialization and excessive technicality. That this has been possible is largely due to the fact that in the tropical East specialist study and modern scholarship have been late growths. In Europe, with its numerous Universities and old academical traditions, the situation has been different. There, research and scholarship have quite early produced greater percentages of professional scholars with earlier felt needs of segregation and division into specialist groups with sharply defined objects and interests. In our present times India also is advancing rapidly on this road, and during the latter decade we have not only witnessed the creation of a large number of Universities, but also a multiplication of learned Societies and scholarly movements. This is natural, in keeping with the spirit of the times, as well as unavoidable in a country of gigantic distances and social as well as linguistic differences. Nevertheless there is a danger here. There are not many of our contemporaneous academical Societies in this country which are really affluent, flourishing and powerful. A man cannot afford to be a member of too many Societies, and as a result though there is a movement towards multiplication, there is also a decided tendency towards falling numbers and diminished support. In former times when such institutions were few, a measure of support was liberally given by the Government. Now-a-days, with growing demands on all sides, and rapidly increasing state expenditure, the Government finds more and more difficulty in supporting learned Societies on any ample scale. The result is awkward. It raises major problems. The question has to be deliberately faced: has an institution like the Royal Asiatic Society of Bengal based on its universal programme of study of all that is produced by nature or performed by man, provided it pertains to Asia, has such a Society still a valid biological function to perform in our modern times and its changed conditions?

To this question I, personally, would unhesitatingly reply in the affirmative. Not only do I hold that our old institution has still a place to fill and a function to perform, but I would go further and say that a Society like ours is in our present days more urgently needed than ever in its career.

You will perhaps remember that our Society started as just 'The Asiatic Society' without the addition of any further definition or circumscription to this title. It is only by pure chance that the further qualification 'of Bengal' was tagged on to the name, some years after its foundation, and, as a convenient indication of its geographical position, became first a merely conventional, and only very much later, an official part of it.

In these early times the expression Bengal, as the seat of the Governor-General, suggested India in general, and it has never been the intention or the practice of either founders or subsequent members of the Society to restrict the scope of its activities to

Bengal, and still less to Calcutta. As a matter of fact unsuccessful attempts have been made from time to time to delete again the additional words 'of Bengal'. What the Society has been, in fact, from its very inception, is an All-India Society, and even today with a very great increase in numbers of local Societies, still almost a quarter of our membership live outside Calcutta, until so recently as 1918, however, there were more members outside Calcutta than local members and it is only in recent years that, chiefly owing to the before-mentioned growth of local bodies, a strong movement towards decrease in non-local members has set in. A question therefore arises whether the time has not come for the Society to consider carefully whether its policies should in future be directed towards efforts to emphasize, and one might say, revivify, the Society's All-India status and nature, or whether modern conditions should rather make it desirable to restrict its activities to more local, let us say provincial, activities, however completely the scope of its labours may still have the whole of Asia for object. My own view is that the more desirable course is to seek firmly to re-establish the Society as an Asiatic Society of India, in consonance with its tradition, history and aims. But here we are up against great difficulties. The Society has been most fruitful in generating, in the course of its long career, a series of scholarly bodies and institutions of a specialized nature. It has generously and unselfishly supported and aided these bodies without attempting to hold, or to rule, or to influence. You will remember how a few years ago my predecessor in this chair, Sir Upendranath Brahmachari, gave a sketch of what the Society has done in the direction. He passes in review the relations between our Society and the following institutions: the Linguistic Survey of India, the Royal Botanical Gardens at Sibpur, the Indian Museum, the Zoological Gardens at Alipore, the Survey of India, His Majesty's Mint, the Medical College of Bengal, the Meteorological Department of the Government of India, the University of Calcutta, the Indian Science Congress, the Calcutta School of Tropical Medicine, the Geological Survey of India and the Zoological Survey of India—relations of an intimate and important character. The Society made over its museum collections to the Indian Museum, as well as its important and valuable numismatic collection, it helped the foundation of, and administered, the Indian Science Congress Association and published its proceedings, it published a numismatic supplement in aid of the Numismatic Society of India, it houses the National Institute of Sciences of India and at one time housed the Photographic Society of India and the Automobile Association of Bengal. And no doubt it was an example for the foundation of the Bangalore Mythic Society, the Lahore Historical Society, the Patna Bihar and Orissa Oriental Society, not to speak of other similar institutions. But this generous help has not been to

the material advantage of the Society itself. Each new Society or Institute created represents a decrease of support for our own Institution. This is but natural and not to be complained of. The march of the scientific movement in India has to continue. Yet, this process; in so far as it affects our Society cannot go on indefinitely without influencing ourselves. There must come a time when our own Society has to take more exclusive care of its own existence because the needs of self-preservation will have become insistent. It seems to me that this time has now definitely arrived. With increasing taxation, increased salaries and wages, with diminished public and Government support, with greater financial and political stress, our own individual existence might be endangered were we not to take resolute steps towards consolidation of our own position.

This involves various consequences. Internally it means that the direction of our Society should be predominantly in the hands of those whose interests are primarily centred in the welfare and needs of our own Society, and not of such as would make its interests subservient to the convenience of other bodies. Externally, it means that greater support should be sought amongst the general classes of the cultured public, to restore the old proportion to our membership by the increase of our All-India and non-technical ranks. Practically it means the greatest possible concentration on our own needs, interests and activities. In order to make such a policy possible it is necessary that amongst our members as well as the outside public the special character of our Society should be clearly recognized. Now what is the special character, to which I alluded in the beginning of my speech, and of which I said later on that it responds more than ever to present-day needs. The very special functions of our Society are in the first place, to provide a common platform for the study of Asia in all its aspects. A common platform in the sense that the Society is non-local or regional, in short not geographical, non-national, non-racial, non-sectarian, non-political and moreover not limited to any specified class, sex, social position or profession. In the second place, that the Society's Asiatic Studies are unlimited; not either scientific or literary to the exclusion of the other; not more restricted to Hindu than to Islamic lore; not confined to India alone to the exclusion of the remainder of Asia; without preference on the one hand for whatever is either made by man or on the other produced by nature. In the third place to provide a meeting place for East and West, for India and non-India, to work together; for the specialist and non-specialist to co-operate; for the private individual and the official to meet; for the dilettante and the expert to exchange views.

In short, the special character of our Society consists in its universality and in India there does not exist at the present

time any other institution of precisely the same nature and scope.

A minor special characteristic is of another nature, namely, the Society's rôle as the custodian of an ancient tradition with a record of more than a century and a half. In this respect too, the Society is unique in India, and has perhaps its only compeer in the whole East in the Batavia Society for Arts and Sciences. This double qualification is one which gives rise to distinct problems. A great multiplication of specialist Societies has created numerous new opportunities for the publication of the results of research. The various Universities have done the same. With regard to the great Scientific Departments of the Government such a position has already been in existence for a long time. Each of these institutions has progressively deflected more and more material for publication from our Society. The question arises whether what is absorbed by such Institutions elsewhere leaves sufficient surplus material to justify the continued existence of ourselves as a general publisher of scholarly productions. It seems to me that no reply can be given to this very difficult problem. It is natural that regional Societies should multiply, but it has been the tendency of our scientific friends to create their own specialist societies without any attempt to correlate their activities with those of the Royal Asiatic Society of Bengal. We are therefore face to face with this question: Is it still possible to keep up the old programme of scientific activity within our Society? If all first class scientific production is deflected elsewhere, is there still a surplus of scientific production of a required high standard for which no proper channels of publication exist? Generally speaking it might be argued that in a gigantic sub-continent like India for a long time to come scientific production will continue to increase and means of publications will have to continue to grow also to meet the increasing rate of output. On the other hand, it may well be that if multiplication of scientific societies continues to progress at its present rapid rate the time might come when the Royal Asiatic Society would have to consider the necessity of restricting itself more and more to purely orientalist lines. If not, it would be certainly necessary to consider the possibilities of creating new relations between the modern Indian scientific world and our own organization. One cannot go on lopping off branches and at the same time keep the tree alive. These problems are too deep to solve in an address such as I am submitting to you this evening, but it is most necessary that attention should be drawn to their existence. The above considerations are based on conditions of scholarship. Added to these there are practical considerations. In a brilliant address a previous Patron has laid down the principle that for large institutions the only sound policy can be that the costs of upkeep and routine are met from endowment and those of creative work

from current income. Unhappily our Society has neglected this economic principle in the past. Mechanical upkeep of our Society makes inroads into our revenue provided by endowment. Insurance, upkeep, repairs, taxation and what not, should not be at the charge of annual fresh income, but unhappily the situation is not so. It has been estimated that our permanent endowment fund should in order to make our Society entirely solvent be not, as at present, in the neighbourhood of two and a half lakhs, but in the neighbourhood of fifteen lakhs, so that in all directions current income should be entirely free for expenditure on creative work. It cannot be stressed too pointedly that this is a vital consideration for the welfare and for the continued existence and future development of our Society.

I fully realize that I have raised most essential questions regarding our Society without at the same time suggesting ways and means to solve our difficulties, but the time is ripe for most definitely drawing attention to these matters, and amongst my distinguished predecessors at least two, Sir Rajendranath Mookerjee and Sir Upendranath Brahmachari, have of late years in their Annual Addresses submitted in detail ample materials leading up to my statements and preparing the way for my summary this evening. At this point, Gentlemen, I will end my reflections in the hope that every well-wisher of the Society may consider them seriously and that every member of the Society may take them to heart. I do not wish it to be understood that I am striking a pessimistic note for I do not diagnose any lack of vitality in our institution, but as a man of business I feel that from time to time a general review of our affairs may be helpful and even demanded. We live in most difficult times. The world is in unrest. Economics are disturbed. Uneasiness is general. In our times politics and economics have come so much to the fore, that quiet research, intellectual endeavour, cultural activity are almost everywhere relegated to a secondary place. Our difficulties are not unique, they are found throughout the civilized world. It is to be hoped that our old inheritance may inspire such wise action and determined effort that the future may ultimately prove itself worthy of the past and the Royal Asiatic Society of Bengal may continue to flourish, to maintain and even to extend its worthy and distinguished activities.

Before sitting down I wish to give expression to my appreciation of the help I have received throughout the year from our General Secretary, Mr. Van Manen, who completes today his 16th year of office. I can only repeat what several of my distinguished predecessors have said about him, that his ready co-operation has been of the greatest assistance to me. Though I know that during the year he has struggled against ill-health, his neverfailing good nature and willingness, his broad views, and his most intimate knowledge of the Society's affairs, have been

valuable assets to our Society. May I express the hope that he may be still with us many years to give us the benefit of his ripe experience and profound knowledge.

DAVID EZRA.

CALCUTTA,
6th February, 1939.

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ROYAL ASIATIC SOCIETY OF BENGAL, 1939.

*Elected and announced in the Annual Meeting,
6th February, 1939.*

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EXHIBITION ANNUAL MEETING.

LIST OF EXHIBITS SHOWN AT THE ANNUAL MEETING OF THE ROYAL ASIATIC SOCIETY OF BENGAL ON THE 6TH FEBRUARY, 1939.

1. ARCHÆOLOGICAL SURVEY OF INDIA.

I. *A terracotta seal.*

A seal engraved on a pendant reading as *Aśvumalasa*, i.e. of *Aśva-mala* (*Aśvamalla*). The writing is in Gupta characters and the seal, therefore, dates from the Gupta period. (In the Archæological Section, Indian Museum collection.)

II. *Three stone rings.*

(1) A disc (toy wheel) of red sandstone from Mathura with intricate carving displaying in the centre the figure of Mother Goddess or Fertility Goddess (?) alternating with plants. On the back can be seen punch-marks. (In the Archæological Section, Indian Museum collection.)

(2) Fragment of a disc (toy wheel) of soapstone from Mathura showing Mother Goddess or Fertility Goddess (?) and the Bactrian camel, a winged Centaur, Geese, taurine symbol and palm tree. (In the Archæological Section, Indian Museum collection.)

(3) Fragment of a disc (toy wheel) of soapstone from Kauśāmbī now in the collection of the Bhārat Kalā Bhavan, Benares. The carving on this includes a row of alligators and the Mother Goddess (?) alternating with three-pronged tree. The side is inscribed, the characters being Mauryan.

The inscription, in exhibit 3, helps to settle the date of the discs 1 and 2 and incidentally also that of the female figure occurring on gold leaves at Piprahwa and Lauriya which cannot be placed later than the 3rd century B.C., the date of the exhibits in question. The find of a similar steatite disc with identical decoration but without the female figure at the Mauryan level at Kadamkuan in Patna, which bears the name *Viśākha* in Aśokan Brāhmī, would help to settle the date of the exhibits as of the Mauryan times. Similar stone rings were discovered in Taxila and Sankisa.

2. GONENDRA NATH BANERJEE.

I. *Durgā (Modern Line Drawing) by Nandalal Bose.*

II. *A Nepalese Banner.*

III. *A piece of Terracotta Lion-head from Tribeni, Bengal.*

IV. *Sandstone Head of Śiva (Orissa).*

V. *Black-stone Head of Viṣṇu (Garhwal).*

VI. *Three Images of Garuḍa.*

(1) Wooden Image from Nepal.

The Nepalese specimen depicts Garuḍa more in the form of a bird, the lower limbs being absolutely bird-like. The hands are human, to the back of which are attached the wings.

(2) Silver Image from Cambodia.

The Cambodian specimen is composed in the same manner, but the body is more human, although the fingers are like talons and the mouth beak-like.

(3) Brass Image from Siam.

The Siamese specimen has the wings attached to the sides of the hands. The hands are like the conventional ones of a dancer, while the lower limbs are realistically bird-like. The face, however, is unlike the Nepalese or the Cambodian specimen; it shows a strong resemblance to the masks of demons as used in the dances in Bali.

VII. *Wooden Toy from rural Bengal.*

The wooden toy is extensively used in rural Bengal. The head is small and the body is proportionately very big, draped in a long gown. Behind the head is a hemispherical stele, which is decorated on both sides of the ear by radiating rays, representing hair. The toy presents a striking resemblance to the covers of Egyptian mummies.

3. KALIPADA BISWAS.

Some typical plants of Swiss-Alps and species common to both the Himalayas and the Alps.

More than 300 specimens of plants collected from the Swiss Alps have been received. These represent about 48 families mostly Phanerogams. A list of the species is furnished with the exhibits. Twenty-five species as noted in the list are common to both the Alps and the Himalayas. Some typical Swiss plants are also exhibited along with the allied Alpine species of Europe and India.

4. PERCY BROWN.

I. Two Tibetan Manuscripts, referred to by Dr. Thomas as follows :—

(1) A work on Astronomy dealing with the Sun, Moon, Stars, Constellations, Yogas, Karaṇas, Houses, etc. Possibly it is part of the '*Vaidurya-dkar-po*', White Vaidūrya.

The manuscript is illustrated by many drawings, simply rendered but very spirited in action.

(2) A Tantra of Vajra-Yāna School of Buddhism. This copy does not appear to be identical with any of those with partly similar titles which are contained in the Tanjur.

II. Three metal figurines from Tibet.

5. CHINTAHARAN CHAKRAVARTI.

I. *Manuscripts of works describing rites for warding off the evils of old age :*

- (1, 2) Ugrarathasānti (R.A.S.B. 1914, I.M. 3051).
- (3) Ugrarathasānti (R.A.S.B. 2225).
- (4) Śastipūrtisānti (R.A.S.B. 2231).
- (5) Bhaimīrathisānti (I.M. 3052).

II. *Old Hindu Almanacs :*

- (1) List of Solar and Lunar eclipses, 1837-1844 A.D. (R.A.S.B. MS. No. I. D. 88).
- (2) Almanac for 1742 Ś.E. (1820 A.D.) (Vaṅgiya Sāhitya Pariṣat MS. No. 986).
- (3) Almanac for 1764-1780 Ś.E. (1842-1868 A.D.) (Vaṅgiya Sāhitya Pariṣat MS. No. 542).

III. *Manuscripts in Bengali Script written in the Uḍiyā style with an iron stylus :*

- (1) Srāddhadīpa (Vaṅgiya Sāhitya Pariṣat No. 26).
- (2) Nyāyadarśana (Vaṅgiya Sāhitya Pariṣat No. 1897).

IV. *Works on the art of the stealing and thief-lore :*

- (1) Śaṇmukhakalpa (R.A.S.B. MS. No. 4847).
- (3) Coracakravartī (Vaṅgiya Sāhitya Pariṣat MS. No. 821).
- (3) Coracakravartī, 4th edition (Vaṅgiya Sāhitya Pariṣat No. 4355).

V. *A few Sanskrit texts published from rare or unique manuscripts belonging to the Society :*

- (1) Apohasiddhi (Bib. Ind. No. 1226, 1910).
- (2) Kṣaṇabhaṅgasiddhi (Bib. Ind. No. 1226, 1910).
- (3) Rāmācarita (Memoirs A.S.B. 1910, III, pp. 1-54).
- (4) Kavīndravacanāsamuccaya (Bib. Ind. No. 1309, 1912).
- (5) Catuṣṣatikā (Memoirs A.S.B. 1914, III, pp. 449-514).
- (6) Mīmāṃsāsāstrasarvasva (Journal of the Bihar and Orissa Research Society, 1931-34).
- (7) Śārīrakabhāṣyavārtika of Nārāyaṇa Sarasvatī (Calcutta Sanskrit Series, No. 1, 1933).
- (8) Brhatī (Madras University Sanskrit Series, No. 3, 1934-6).

6. SIR DAVID EZRA.

Coronation chair.

This is one of the ceremonial chairs used in the coronation ceremony of His Majesty the King, 1937, in Westminster Abbey. Appropriate colours and monogram.

7. GEOLOGICAL SURVEY OF INDIA.

I. *Meteorite and meteoritic shale.*

- (1) Mabwe-Khoywa meteorite, fell between 10-40 p.m. and 11 p.m. on the 17th September 1937 at Mabwe-Khoywa village in Karenni State near Toungoo, Burma.

(2) Meteoritic shale associated with Brenham meteorite, acquired recently by exchange from Kyancutta Museum, S. Australia.

II. *A new manganese mineral 'Tirodite', from the manganese mine at Tirodi, C.P.*

III. *A collection of bauxites and laterites with their respective derivatives.*

IV. *A collection of rocks showing the derivation of sandstone from the weathering of impure nummulitic limestone in Assam.*

V. *'Family tree of Man and the Apes.'*

This pictorial chart illustrates the evolutionary history of the human race and of the Apes at a glance.

VI. *A progressive series showing the gradual evolution of the skull of various races of fossil man and a modern human skull, for comparison.*

8. M. MAHFUZ-UL HAQ.

(1) A finely illustrated and ornamented MS. of Persian poems of Hasan, Hâfiz, Jâmi and others. Copied by Mir 'Arab al-Husayni, in 987 A.H. (1579, A.D.).

(2) An *Album* of specimens of Islamic calligraphy—some of the specimens bear the signatures of 'Alī Ridā, Ibrāhīm al-Yazd, Wiṣāl Shīrāzī, Sharīfī (a Persian poet of the 10th century Hijra) and others. There is a *Farmān* also, dated 937 A.H. (1530 A.D.).

(3) An *Album* of specimens of Islamic calligraphy, bearing the autographs of Aḥmad al-Nairīzī, Wiṣāl Shīrāzī, 'Abdul Majīd Iṣfahānī and others.

9. M. HIDAYAT HOSAIN.

(1) *Shāh Nāma* by Firdausī Tūsī, died A.H. 411, A.D. 1020, written calligraphically and containing several curious miniature paintings finished in the Tātār style.

(2) Another copy lately purchased by Mr. Johan van Manen for the Government Collection.

(3) *Al-Ikhtisār waṭ Tajrīd* by Muḥammad bin Uṭhmān ash-Shāfi'ī. It is a work on the Sayings of the Prophet, is an autograph copy and was written in Rabi'ī, A.H. 728, January 1328.

(4) The *Mu'allaqāt* with the commentary of 'Alī bin 'Abdallāh al-Wahrānī. The MS. is 842 years old as it is dated A.H. 515, A.D. 1121.

(5) *Suwarul Aqālīm*, a compendium of Geography with special reference to wonders of various kinds with illustrations. It was dedicated to Prince Mubārīz-ud-Dīn Muḥammad (A.D. 1313-1359) of Fārs and Kirmān and was composed in A.D. 1347.

10. JOHAN VAN MANEN.

Seven water colours from Tibet.

During 1938 Mr. Kunwal Krishna, a Panjabi artist, took part in an expedition to Tibet and visited the Sakya monastery which has been only rarely visited by foreign travellers. Mr. Krishna brought back a number of water colours representing scenes from Sakya monastery and elsewhere, as well as of types. The exhibitor has acquired a number of these paintings which he now shows, as detailed below:—

- (a) The scholar's nest: Sakya monastery.
- (b) Main gate, Sakya monastery.
- (c) Street in Pharijong.
- (d) On the way to Shigatse.
- (e) On the way to the Peekong monastery.
- (f) The Peekong monastery.
- (g) A lama saying prayers for a sick man.

11. J. N. MUKHERJEE.

Thixotropy.

A novel type of 'sol→gel transformation' was investigated by Miss Schalek and Szegvari in 1923 which is 'isothermally reversible'.* A concentrated ferric oxide hydrosol when treated with suitable quantities of electrolytes in a test tube sets to a gel. The gel can be liquefied simply by means of shaking and again sets on standing. The time of setting is a constant quantity and the experiment can be repeated any number of times. This phenomenon has been called thixotropy by Freundlich.

Since the discovery of Miss Schalek and Szegvari, thixotropy has been observed in a large number of systems, e.g., aluminium oxide hydrosol, vanadium pentoxide sol, bentonites, some paints, some slates, quicksand, cytoplasm and others.

The variation of thixotropic properties of a suspension with (a) the concentration of the suspension, (b) the concentration of the added electrolyte, and (c) temperature has been investigated with a large number of thixotropic systems.

A suspension of a particular sample of bentonite sets immediately to a thixotropic gel when the concentration of the suspension is about 13.5 p.c. while a 11 p.c. suspension does not solidify at all. The time of solidification also depends on the diameter of the measuring tube.

The time of solidification varies exponentially with the concentration of the added electrolyte until it sets to a permanent gel or it is coagulated.

Various methods have been tried to inhibit the thixotropy of a suspension. These include the application of electric and magnetic field and also of ultrasonic waves. Among chemical reagents amino-acids have been found to be effective in the case of ferric oxide hydrosols. When a thixotropic gel is shaken with small quantities of an amino-acid the gel becomes a sol and does not set so readily if not at all.

Experiment No. 1.

Demonstration of thixotropy with ferric oxide hydrosol, aluminium oxide hydrosol, bentonite and paint.

* The phenomena is said to have been observed earlier by Schornstein (1911), Meerbrei (1913) and Wisconsin (1922)

Experiment No. 2.

Variation of thixotropy with the concentration of bentonite suspensions.

Experiment No. 3.

Variation of thixotropy with the concentration of added electrolyte in the case of ferric oxide hydrosol.

Experiment No. 4.

Variation of the time of setting with the diameter of the measuring tube.

Experiment No. 5.

Inhibition of thixotropy by amino-acids.

12. ZOOLOGICAL SURVEY OF INDIA.**1. *Epibulus insidiator* (Pallas). A remarkable fish from the Andaman Islands.**

Epibulus insidiator, though described as early as 1770 from Java and since recorded from other localities in the Indo-Pacific, was not represented in the collections of the Indian Museum. In 1930 Drs. B. Prashad and S. L. Hora obtained a beautiful specimen from the coral reefs of the Ritchie Archipelago, Andamans. As will be seen from this specimen, *E. insidiator* is unique among fishes in possessing extremely protractile jaws. The mouth with the four prominent canines of the upper and lower jaws, lies at the end of a tube formed by the greatly hypertrophied jaws which can suddenly be thrust out to engulf such marine animals as come within its reach.

The fish is coloured uniformly dusky brown, with the pectorals and iris yellowish, while the dorsal and anal fins bear longitudinal bars of a yellowish colour. A coloured drawing of the fish in Bleeker's *Atlas Ichthyologique* is also exhibited.

11. *Models of Marine Invertebrates.*

Most marine invertebrates are rather small, often microscopic forms, and as such are not suited for exhibition in public galleries of a museum. Further the preservation of these animals in a fully expanded condition and without destroying their varied colour patterns is not an easy task. In view of these difficulties and for illustrating the diversity of form, organisation, colour, etc., of the animals, they are represented in museums by enlarged models in various media. Most of the media used in colder parts of Europe and America have been found to be useless in the hot and humid climate of Calcutta, and a great deal of experimental work had to be carried out before suitable media were found for the preparation of models for the Natural History galleries of the Indian Museum. The models exhibited are made of mineral wax of a very high melting point, glass and steel wires, and, so far as possible, the background is a reproduction of the exact type of habitat of the different animals. The models have been prepared in the laboratories of the Zoological Survey of India.

III. 'Beyop' or the bronze girdle worn by Abor women.

Abor women wear a peculiar girdle called the 'beyop' round their waist. This girdle consists of a number of bronze or brass discs strung together with a thin band of screwpine, a thin cane or a strip of raw hide. These discs are made in graduated sizes, the largest about $3\frac{1}{2}$ inches in diameter is generally placed in front, in the centre of the girdle, while the remaining discs, which gradually decrease in size, are worn on either side of the large central one. The common design on each disc consists of a number of concentric circles and three, sometimes two, straight lines running diametrically and intersecting each other at angles of 60° (90° in the case of the two lines). The designs greatly resemble the Wheel of Life symbol, commonly found on the 'dankis' or the Tibetan bronze bowls.

There is a marked difference in the number of discs in the 'beyop' girdle worn by the Abor women before and after the birth of the first child. Girls begin to wear the girdle, usually consisting of a disc or two, as soon as they can walk, and this also serves the purpose of a lower garment. The girdles worn by the married women, on the other hand, generally consist of six or more discs.

Beyops are generally manufactured by the local blacksmiths who cast the discs in a wax mould from material supplied by customers.

13. THE GENERAL SECRETARY.

(1) *The Society's Publications in 1938.*

- (a) Journal.
- (b) Memoirs.
- (c) Proceedings, Indian Science Congress.

(2) *Some Recent Publications by Members of the Society.*

- (a) B. Sahni: Recent advances in Indian Palaeobotany. Lucknow, 1938.
- (b) B. Prasad: The Progress of Science in India during the past 25 years. Calcutta, 1938.
- (c) S. L. Hora: An Outline of the Field Sciences of India. Calcutta, 1937.
- (d) Sir Aurel Stein: Archaeological Reconnaissances in North-Western India and South-Eastern Iran. London, 1937.
- (e) Sir J. G. Frazer: Totemism. London, 1937.

ANNUAL REPORT FOR 1938.

The Council of the Royal Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1938 :—

1. Ordinary Members.

Gains and losses.—These were as follows during the year:—

<i>Gains.</i>		<i>Losses.</i>	
Elections carried forward ..	4	Elections carried over, ..	1
New elections ..	23	Applications withdrawn ..	1
		Elections lapsed ..	4
		Deaths ..	6
		Resignations ..	27
		Rule 40 ..	6
	—		—
TOTAL ..	27	TOTAL ..	45
	—		—

Initial total 408; net loss 18; final total 390.

Rule 40.—This Rule, dealing with members absent from India, providing that if no intimation of their wishes shall, in the interval of three years from the date of leaving India, have been received by the Society, their names shall be removed from the List of Members, was strictly applied and six names were removed from the List of Members.

Membership List.—The customary detailed cross-check of the membership lists with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 98, leaving more than ever room for substantial expansion.

Life-members.—The total of our Life-members has decreased by one and now stands at 54. One was lost by death; and no members compounded during the year.

Deaths.—This year the loss to the Society by death has been the same as that of the year before. Amongst the distinguished and especially valued members lost to us, for whose departure the Society is the poorer, and whose memory will be cherished, the following may be mentioned:—

Rai Bahadur Shyam Lal (Ordinary Member, 1902).

M. E. M. M. Ulser (Ordinary Member, 1934).

Sir Onkarmull Jatia (Ordinary Member, 1925).

T. H. D. La Touche (Life-member, 1910 and Ordinary Fellow, 1910).

N. G. Majumdar (Ordinary Member, 1920 and Ordinary Fellow, 1936).

2. Associate Members.

During 1938 no new Associate Members were elected.

One Associate Member was lost by death during the year:—

Nagendra Nath Vasu (1927).

The present number stands at 4; statutory maximum 15.

3. Special Anniversary Honorary Members.

The total number stands at 10 as in last year.

4. Institutional Members.

No addition was made to this class of members during the year. Total number remains 12.

5. Ordinary Fellows.

On the date prescribed by the regulations for the issue of nomination papers for the election of Fellows there were no vacancies and consequently no election took place.

We lost subsequently through death the following two Ordinary Fellows:—

T. H. D. La Touche (1910).

N. G. Majumdar (1936).

The following Ordinary Fellow resigned his membership in the Society:—

B. Sahni (1927).

The number of Ordinary Fellows at the end of 1938 stood at 46; statutory maximum 50.

6. Honorary Fellows.

During the year the following was elected an Honorary Fellow:—

The Rt. Honourable Sir John Anderson.

One Honorary Fellow was lost by death:—

Lt.-Col. Sir T. Wolseley Haig (1927).

The number at the end of the year was 19; statutory maximum 30.

7. Condolences.

The Council expressed condolences to the relatives of the following deceased during the year:—

T. H. D. La Touche, an Ordinary Fellow since 1910.

Lt.-Col. Sir T. Wolseley Haig, an Honorary Fellow since 1927.

Nagendra Nath Vasu, an Associate Member since 1927.

N. G. Majumdar, an Ordinary Fellow since 1936 and Council Member since 1935.

8. Council.

The Council met 13 times during the year. The attendance averaged 13 of the 20 component members.

The following resolutions of thanks were passed by the Council:—

To the Members of the Special Sub-Committee of the Council on their work for the re-organization of the Society.

To the outgoing Members of Council for the services rendered by them to the Society during the period of their Council Membership.

9. Office Bearers.

The changes in the Council during the year were as follows:—

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Mr. Percy Brown, absent, from 3-9-38 to 15-9-38.

Mr. Percy Brown, Acting General Secretary, *vice* Mr. Johan van Manen, absent, from 29-9-38 to 24-10-38.

Absentees other than those mentioned above were:—

Dr. A. M. Heron, absent from 15-4-38 to 15-7-38.

Sir David Ezra, absent from 25-4-38 to 10-11-38.

Col. R. N. Chopra, absent from 10-4-38 to 15-6-38 and 6-10-38 to 30-10-38.

Sir George Campbell, absent from 15-4-38 to 30-6-38.

Mr. N. G. Majumdar, absent from 1-5-38 to 15-6-38. (Murdered on 11-11-38)

Major C. L. Pasricha, absent from 1-5-38 to 15-7-38.

Dr. B. S. Guha, absent from 15-4-38 to 15-6-38 and from 14-10-38 to 15-11-38.

Mr. W. D. West, absent from 15-7-38 to the end of the year.

Sir John Lort-Williams, absent from 4-8-38 to 5-11-38.

Col. N. Barwell, absent from 24-8-38 to 9-11-38.

Dr. S. K. Chatterji, absent from 25-7-38 to 15-10-38.

Dr. K. P. Biswas, absent from 15-9-38 to 25-11-38.

Dr. J. N. Mukherjee, absent from 15-10-38 to 12-11-38.

10. Committees of the Council.

The Standing Committees of the Council during the year, namely, the Finance, Publication, and Library Committees, met every month, except in September.

A Special Sub-Committee consisting of Sir John Lort-Williams (Chairman), Sir U. N. Brahmachari, Prof. J. N. Mukherjee, Dr. Baini Prashad, Mr. W. D. West (Secretary) and the *ex officio* Members was appointed to consider and report on ways and means of re-organizing the office with the recommendation that an Assistant Secretary be appointed if a suitable salary can be provided, and in such case to recommend his qualifications and define his duties.

During the year the following three sub-committees were also appointed:—

(1) A sub-committee consisting of Dr. Baini Prashad, Lt.-Col. N. Barwell, the *ex officio* Members, and the Assistant

Secretary as Assessor, to make recommendations, if necessary, regarding the rules or practices of the Society.

(2) A sub-committee consisting of Dr. Bains Prasad, Dr. J. N. Mukherjee, Dr. A. M. Heron, Lt.-Col. N. Barwell, Mr. K. C. Mahindra, and the *ex officio* Members to consider the desirability of the enlargement of the various medal awards and to report to the Council.

(3) A sub-committee consisting of Dr. S. K. Chatterji, Dr. Hidayat Hosain, Dr. J. N. Mukherjee, Mr. Percy Brown and Mr. Johan van Manen to report on the desirability of founding an Indian Academy of Arts and Letters.

11. Finance Committee.

The Finance Committee continued during the year to meet on dates different from, and a few days prior to, those of the Council Meetings.

Two Special Meetings were held in January and December to frame the budget respectively for 1938 and 1939.

12. Office.

Staff.—Changes and appointments in the office staff were as follows:—Mr. T. V. V. Nathan, despatcher, left towards the middle of the year and Mr. M. M. Khan was appointed in his place.

Assistant Secretary.—The appointment of Mr. J. R. Seal, as Assistant Secretary on probation for one year with effect from 5th August was made as a result of the recommendation of the Special Sub-Committee appointed by the Council.

Correspondence.—This year the number of outgoing letters was 1,668 and that of incoming letters 3,561.

Files.—During the year very little progress was made with regard to the files, old and new.

Stock-room.—Labelling, bundling, and registration of the contents of the stock-room were kept up-to-date during the year for new publications. The stock-books for new accessions and for sales were kept up.

Distribution.—No change was made in the mode of distribution of our periodicals and notices. A better system for the distribution of the free copies of the *Bibliotheca Indica* has to be devised.

Addresses.—Printed address labels remained in use and the system of constant revision and addition which has been adopted enables us to keep the printed addresses up-to-date, month by month.

Card Register.—The card registers of the Society's membership was kept up-to-date and checked at the close of the year.

Circulars and Forms.—The number of these printed during the year was 59. About Rs.642 were spent under this head.

13. Rules and Regulations.

During the year no changes were made in the Rules and Regulations of the Society, though a committee was appointed to make recommendations for this purpose.

14. Indian Science Congress.

Twenty-fifth Session.—The Twenty-fifth Annual Meeting (Silver Jubilee Session) of the Indian Science Congress was held in Calcutta, as a joint session of the Indian Science Congress Association and the British Association for the Advancement of Science, from January the 3rd to January the 9th, 1938, under the joint patronage of His Excellency the Most Honourable Lord Victor Alexander John Hope, K.T., P.C., G.M.S.I., G.M.I.E., G.C.I.E., O.B.E., D.L., T.D., the Marquess of Linlithgow, Viceroy and Governor-General of India, and His Excellency the Right Honourable Lord Cecil Marcus Knatchbull-Hugessen, G.C.S.I., G.C.I.E., M.C., Baron Brabourne, Governor of Bengal.

President.—Professor the Right Hon'ble Lord Rutherford of Nelson, O.M., D.Sc., LL.D., Ph.D., F.R.S., the President Elect died on the 19th October, 1937, and Sir James Jeans, D.Sc., Sc.D., LL.D., F.I.C., F.R.S., succeeded him to the office of the President of the Congress.

Proceedings.—The Proceedings of the 25th Indian Science Congress, Parts I and II, consisting of 458 pages and 8 plates were published during the year. Part IV consisting of Discussions, Index, etc., will be published early in the new year. The Proceedings of the 26th Indian Science Congress, to be held in Lahore, Part III, Abstracts, consisting of 234 pages were published during the close of the year.

Programme and Abstracts.—As in the previous years the programme of the meetings and the abstracts were sent, as far as practicable, by post to all members who had applied for membership before the date of their publication. This year this date was the 16th of December, 1938.

Finance.—The Congress finances remained separate from those of the Society.

Secretaries.—During the year the Executive Committee of the Indian Science Congress Association appointed Prof. P. Parija as General Secretary *vice* Mr. W. D. West, resigned. The other Secretary Dr. J. N. Mukherjee, remained the same. The Managing Secretary was Mr. Johan van Manen in his capacity as General Secretary of the Society.

During the year the question of complete separation of the Indian Science Congress Association and the Society was officially considered by both bodies. The rapid expansion of the Indian Science Congress Association imposes a heavy burden on the staff of the Society. It needs careful consideration whether it would not be to the interests of both to effect the separation.

15. Indian Museum.

The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act, X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt., who was re-appointed as such for a further period of three years.

16. Kamala Lectureship.

The Society's nominee to serve on the Selection Committee of the Kamala Lectureship, administered by the Calcutta University, remained the same, Rai Sir Upendra Nath Brahmachari Bahadur, Kt.

17. National Institute of Sciences of India.

Rai Sir Upendra Nath Brahmachari Bahadur, Kt., and Sir Bryce Burt were nominated as Society's representatives to serve on the Council of the National Institute of Sciences of India as a Vice-President and a Member of Council.

18. Deputations.

The Society received an invitation to send representatives to the various functions connected with the meeting of the International Congress of Orientalists, which was held in Brussels in September.

The Council invited Dr. S. K. Chatterji and Dr. U. N. Ghoshal to represent the Society.

19. Honours.

Amongst the Honours conferred during the year the following should be mentioned:—

His Majesty the King-Emperor was graciously pleased to confer the title of Raja Bahadur on Kumar Kamal Ranjan Ray, a valued member of this Society.

20. Congratulations.

The Society conveyed its congratulations to the following:—

To the Rt. Hon. Sir John Anderson on his appointment as Lord Privy Seal by H.M. the King.

To the Indian Science Congress Association on the occasion of its Silver Jubilee Session.

21. Visits.

An appreciable number of distinguished visitors came to the Society during the year. Amongst them were scholars from China, Japan, Germany, France, the United States of America, Syria and Pondicherry.

22. H.E. the Governor of Bengal.

The incoming Governor of Bengal, His Excellency the Right Honourable Lord Cecil Marcus Knatchbull-Hugessen, G.C.S.I., G.C.I.E., M.C., Baron Brabourne, graciously accepted the invitation extended to him to accept the Office of Patron of the Society, jointly with H.E. the Viceroy and Governor-General of India.

23. Social Functions.

No social functions were held by the Society during the year.

The Society continued the practice of providing tea to the members and visitors present at the time of the Ordinary Monthly Meetings.

24. Elliott Prize for Scientific Research.

The annual prize offered for the year 1937 was for research in Chemistry, which was, awarded to Dr. Pulin Behari Sarkar in the Annual Meeting of 1938.

The prize offered for the year 1938 was for Physics. The announcement regarding the prize will be made in the Annual Meeting of 1939.

The prize for next year, 1939, will be for research in Geology and Biology (including Pathology and Physiology).

25. Barclay Memorial Medal.

The (biennial) award of the Barclay Memorial Medal for 1937, for conspicuous contributions to Medical and Biological Science with reference to India, was announced in the Annual Meeting of 1938. The medal was bestowed on Bt.-Col. R. N. Chopra.

The next award will be announced in the Annual Meeting of 1940.

26. Sir William Jones Memorial Medal.

The (triennial) award of the Sir William Jones Memorial Medal for Asiatic Researches in Philosophy, Literature, and History was announced in the Annual Meeting of 1938. The medal was bestowed on Dr. A. J. Wensinck of Leyden.

The next (triennial) award for Asiatic researches in Science including Medicine will be announced in the Annual Meeting of 1941.

27. Annandale Memorial Medal.

The next (triennial) award, for contributions to the study of Anthropology in Asia, will be announced in the Annual Meeting of 1940.

28. Joy Gobind Law Memorial Medal.

The next (triennial) award of the Joy Gobind Law Memorial Medal for 1938, for contribution to Zoology in Asia, will be made in the Annual Meeting of 1939.

29. Paul Johannes Brühl Memorial Medal.

The next (triennial) award of the Paul Johannes Brühl Memorial Medal for contributions to the study of Asiatic Botany for 1937 deferred to 1939, will be made in the Annual Meeting of 1939.

30. Calcutta Indian Science Congress Medal.

The second award of the medal was announced in the Annual Meeting of 1938 and the award was made to Sir James Jeans, President of the Indian Science Congress Association and ex-President of the British Association, for his important contributions to science.

The next award will be made in connection with the next session of the Congress to be held in Calcutta.

31. Pramatha Nath Bose Memorial Medal.

The Council has not as yet decided on the first year of the award of the Pramatha Nath Bose Memorial Medal for important contributions to practical or theoretical Geology with special reference to Asia.

32. Society's Premises and Property.

A sum of Rs.2,000 was set aside during the year to be credited to the Building Repair Fund.

During the year some petty repairs to the Society's building, on the ground floor as well as the furnishing of a room,

in the south-east corner, for editorial purposes, were effected. A new secretarial table was purchased for the Assistant Secretary. A new Remington type-writer was purchased and the Council tables and chairs were repaired.

33. Accommodation.

During the year, a room, downstairs, has been set aside for editorial work. Urgent matters that require attention are: the provision of a set of small working rooms for various purposes, the shelving of the stock-rooms, the extension of shelving for the Library and new shelving for the twelve thousand manuscripts made over to the Society as a permanent loan by the Government of India.

34. Artistic and Historical Possessions.

No notable accession was made during the year to the artistic and historical possessions of the Society.

35. Presentations, Donations, and Legacies.

Except for the presentations mentioned under the next heading, no other presentation was received during the year.

36. Library.

Permanent Library Endowment Fund.—The fund received no further donations during the year. The total invested capital remained (face value) Rs.14,000, in 3½ per cent. Government paper. The accumulated interest will permit the purchase of one further paper to the face value of Rs.1,000 early next year.

Accessions.—The accessions to the library during the year, exclusive of about 200 periodicals received through exchange or otherwise, numbered 273 volumes, out of which 151 were purchased and 122 were acquired by presentation.

During the year we acquired by purchase the latest edition of the German Brockhaus in 21 volumes.

Binding.—During the year 457 units, including books, pamphlets and periodicals, were bound at a cost of Rs.550, against a budget allowance of Rs. 600 sanctioned for the purpose.

Purchases.—The allocation for the purchase of books for the year was Rs.3,000, but actually an amount of Rs.2,885 only was spent.

Shelving.—Installation of special steel shelving for manuscripts and books in the western section of the library remains

still to be effected, and provision has also to be made for further steel shelving for the current accessions of periodical literature. Our available shelving space for printed books is also rapidly coming to an end.

37. Finance.

Appendix III contains the usual statements showing our accounts for 1938. No change has been made in the form of their presentation since the previous year.

One statement, still carried over, is:

Statement No. 17. International Catalogue of Scientific Literature, London.

The other statements are presented as in the previous year.

As usual the Fund Accounts show their invested assets written down to their market values as at the end of the year and Investment Account No. 24 shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown in it.

Statement No. 26 shows the Balance Sheet of the Society and the different funds administered by and through it.

The funds belonging to, or administered by, the Society may be classified as follows:—

(a) General Fund:—

(i) Permanent Reserve.

(ii) Working Balance.

(b) Specific Funds belonging to the Society.

(c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1937, was as follows:—

	Face value.	Market value.	Face value.	Market value.
	31st Dec., 1937.	31st Dec., 1937.	31st Dec., 1938.	31st Dec., 1938.
	Rs.	Rs.	Rs.	Rs.
1. General Fund ..	2,95,200	2,91,000	2,97,700	2,93,000
(a) Permanent Reserve	2,54,200	2,50,000	2,54,200	2,49,500
(b) Working Balance	41,000	41,000	43,500	43,500
2. Specific Funds belonging to the Society ..	69,200	69,200	81,000	81,000
3. Funds administered by the Society ..	45,600	44,800	43,800	43,300
	4,10,000	4,05,000	4,22,500	4,17,300

During the year Rs.640 were received through admission fees. This amount, less Rs.19-5, the cash debit brought forward from 1937, will be transferred to the Permanent Reserve in the

usual manner by conversion of Government paper (3½%) belonging to the Temporary Reserve.

The Government of Bengal maintained the 20% cut in all grants made by them to the Society during the year.

The Society received the following grants from the above Government:—

	For		Rs.	Statement.
Journals	1,600	1
O.P. Fund No. 1	7,800	2
Sanskrit MSS. Fund	10,880	4
			<u>20,280</u>	

The Government of Bengal annual grant, of Rs.2,400 for publication of works relating to historical interests, for the year 1938-39 has not been received. It is hoped that it will be received early in the new year.

The income derived from advertising during the year amounted to Rs.9,600.

The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 22 and 23.

Statement No. 20 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications and contingent charges.

The Government Securities shown in Statement No. 24 are held in safe custody by the Imperial Bank, Park Street Branch. During the year there was a slight depreciation of the securities amounting to Rs.775-11, decreasing to that extent the book assets of the Society.

The budget estimates for 1938 and the actuals of the year were as follows:—

Estimates.			Receipts.	Expenditure.
			Rs.	Rs.
Ordinary	..	..	55,800	55,800
Extraordinary	..	..	1,000	1,000
		TOTAL	<u>56,800</u>	<u>56,800</u>
Actuals.				
Ordinary	..	..	54,777	50,485
Extraordinary	..	..	640	640
		TOTAL	<u>55,417</u>	<u>51,105</u>

The ordinary income was about Rs.1,023 less than estimated.

On the expenditure side about Rs.5,335 was expended below the estimate.

The year's working shows an increase in the net balance to the extent of Rs.11,500 as compared with that of last year, after

deduction of the depreciation of our investments which amounted to Rs.775-11.

The budget estimates for probable expenditure have as usual been framed to meet demands under various heads based on various activities in all departments of the Society's work.

The receipts have been conservatively estimated.

BUDGET ESTIMATE FOR 1939.

Ordinary Receipts.

	Budget Estimate for 1938.	Actuals for 1938.	Budget Estimate for 1939.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits.. {	10,000	10,012	10,000
	700	900	1,000
Advertising	9,600	9,600	9,600
Annual Grant	1,600	1,600	1,600
Miscellaneous	300	180	200
Members' Subscriptions	9,000	9,086	10,000
Publications, Sales and Subscriptions ..	4,000	2,924	4,000
Proportionate Share of Funds	7,000	7,000	7,000
Indian Science Congress Contribution..	600	600	600
Rent	9,300	9,175	9,900
Special contribution from working balance for meeting arrears of pub- lication	3,700	3,700	2,750
TOTAL ..	55,800	54,777	56,650

Ordinary Expenditure.

	Rs.	Rs.	Rs.
Salaries	31,000	29,916	33,000
Commission	300	244	300
Stationery	400	385	400
Fan, Light and Telephone.. .. .	700	561	700
Taxes	2,400	2,387	2,400
Postage	1,400	1,150	1,200
Contingencies	750	680	750
Petty Repairs	100	165	150
Insurance	500	500	500
Menials' Clothing	200	193	100
Office Furniture	500	793	500
Building Repairs	2,000	2,000	2,000
Provident Fund Share	700	651	700
Audit Fee	250	250	250
Books, Library	3,000	2,885	2,500
Binding, Library	600	530	500
Journal and Memoirs	10,000	6,557	10,000
Printing, Circulars	1,000	620	700
TOTAL ..	55,800	50,467	56,650

Extraordinary Receipts.

	Budget Estimate for 1938.	Actuals for 1938.	Budget Estimate for 1939.
	Rs.	Rs.	Rs.
By Fees			
by Admission Fees	650	640	650
by Compounding Fees	300	..	..
by Institutional Membership Registration Fees	50	..	..
TOTAL ..	1,000	640	650

Extraordinary Expenditure.

	Rs.	Rs.	Rs.
To Permanent Reserve			
by Admission Fees	650	640	650
by Compounding Fees	300	..	..
by Institutional Membership Registration Fees	50	..	..
TOTAL ..	1,000	640	650

38. Publications.

Journal.—Of the *Journal*, Volume II for 1936, one number, consisting of 134 pages and 5 plates to close the volume for Letters, was issued. For Volume III, 1937, two numbers, consisting of 270 pages and 22 plates to close the volume for Letters, and one number consisting of 138 pages and 6 plates to close the volume for Science, were issued.

Memoirs.—Of the *Memoirs*, one number was published to complete the series on 'Geographic and Oceanographic Research in Indian Waters' by Lt.-Col. R. B. S. Sewell.

Year-Book.—The *Year-Book* for 1936 consisting of 230 pages was issued during the year. The *Year-Book* for 1937 will be issued early this year.

Indian Science Congress Association.—The *Proceedings* of the 25th Indian Science Congress, Parts I and II, consisting of 458 pages and 8 plates, were published during the year. Part IV, Discussions, late abstracts, list of members and index, etc., will be issued early this year.

The *Proceedings* of the 26th Indian Science Congress, Part III, Abstracts, consisting of 234 pages were published during the close of the year.

39. The Baptist Mission Press.

Under the capable superintendence of Mr. P. Knight the Baptist Mission Press continued to act as our printers and

again gave invaluable assistance and maintained closest co-operation.

40. Agencies.

Our European and Indian Agents remained the same throughout the year. Messrs. The Moore Cottrell Subscription Agencies, New York, were appointed our Agents for America. An extension of the list for Asiatic countries is desirable.

41. Exchange of Publications.

During the year, the following applications for exchanges with the Society's publications were considered by the Council, with the decision as noted against them:—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Geographische Gesellschaft in Hamburg, Germany ..	Journal.
Chemisches Zentralblatt, Berlin ..	Journal (Science) and Memoirs.

42. Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of January and the recess months, September and October. The recorded average attendance was 16 members and 1 visitor. The maximum attendance was in March with 22 members.

No meeting of the Medical Section was held during the year.

43. Exhibits.

In the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned:—

- Percy Brown: Indian Ladies playing Polo (Indian Miniature).
- Chintaharan Chakravarti: Manuscripts of three little-known works of Kamalākara; Manuscript of a hitherto-unknown work of the Pārānanda School; a manuscript of a little-known work on the Rādhāvallabhi School, belonging to the Royal Asiatic Society of Bengal; and a Manuscript of a hitherto-unknown work of the Nakūlisa-Paśupatas.
- C. S. Fox: The Rangala Meteorite.
- M. Mahfuz-ul Haq: A note on a Persian Manuscript of Ṣaḥā'if-i-Ṣharā'if of Muhammad 'Askarī al-Ḥusainī of Bilgrām.
- S. L. Hora: Aerial Vision in Fishes.
- Johan van Manen: Seven Water Colours from Tibet.

44. Communications.

Apart from papers submitted both for reading and subsequent publication a number of communications, not intended for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications made during the year the following may be mentioned:—

Chintaharan Chakravarti; Kāśinātha Bhaṭṭa—a polymath.

M. Hidayat Hosain: A short account of a great Saint of Islam; and A flying Machine in the 9th Century A.D.

Johan van Manen: The Study of Heraclitus; Śilhana's Śanti-śatakam; Recent Exploration in Tibet; and Alfred Forke's History of Chinese Philosophy.

45. General Lectures.

The following General Lecture was held during the year before a fairly large audience of members and invited guests:—

Throsten Gedda, Honorary Representative of the Swedish Traffic Association, Stockholm, Sweden:

Subject: Sweden, Old and New.

46. Philology.

Four papers read in the previous year were published during the year.

Five papers were read during the year to be published later.

47. Natural History: Biology.

One paper read in the previous year was published during the year.

One paper read during the year is to be published later.

48. Natural History: Physical Science.

No papers falling under this heading were either read or published by the Society during the year.

49. Anthropology.

Three papers read in the previous years were published during the year.

Four papers were read during the year to be published later.

50. Archæology.

Three papers read in the previous years were published during the year.

51. Bibliotheca Indica.

Indian works continued.—The following works were continued during the year:—

1. Manu-Smṛti, with the Commentary of Medhatithi, Sanskrit.
2. Saundarānanda-Kāvya, text, Sanskrit (Second and revised edition).
3. Varṇa-Ratnākara, text, Old Maithili.

Islamic works continued.—In the Islamic Series work was continued on three works, namely:—

1. 'Amal-i-Sālih, Persian.
2. Rubā'iyāt of 'Umar-i-Khayyām, Persian.
3. Tārīkh Salāṭin Afaghina, Persian.

New Works.—The following new work was sanctioned during the year to be taken up early next year:—

Doctrine of Nimbārka : Translations of Nimbārka's and Śrīnivāsa's Commentaries on the Brahma-Sutras, Volumes I and II.

52. Sanskrit Manuscripts.

During the year considerable progress was made in the work of revision and arrangement of the descriptive slips for Volume IX, on Philosophy.

53. Arabic and Persian Manuscripts, Search and Catalogue.

The work in this department was steadily continued.

Binding.—The binding and repairing of previously and newly acquired MSS. were continued and 46 MS. volumes were bound during the year, making a total of 1,276 MSS. bound and repaired since the end of 1924.

Acquisitions.—During the year twenty-five manuscripts were acquired by purchase at a cost of Rs.237.

Catalogue.—The work on the Arabic Catalogue was steadily continued. Descriptive notice slips for the MS. volumes from No. 1056 to No. 1200 were made press ready and also the index up to page 530 was made ready for the press. The Catalogue, it is expected, will be printed off during the coming year.

54. Numismatics.

During the year two numbers of Numismatic Supplements were published: one for 1935-36, No. XLVI, consisting of 134 pages and 5 plates, issued during the early part of the year, and the other for 1937-38, No. XLVII, Silver Jubilee Number, consisting of 160 pages and 14 plates, issued during the latter part of the year.

The Silver Jubilee Number contains besides the usual articles a 'Resumé of Numismatic Research in India' during the past 25 years of its existence, and an Index to the Numismatic Supplements Nos. XXXIII to XLVII (Articles 200 to 350) published in the Journal of the Royal Asiatic Society of Bengal, from 1919 to 1938.

[APPENDIX I.]

Membership Statistics.

(As calculated for December 31st, for 30 years.)

YEAR.	ORDINARY.								EXTRA-ORDINARY.					FELLOWS.			
	PAYING.				NON-PAYING.				Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.	Total.	Grand Total Membership.	Honorary.	Ordinary.
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.										
1909 ..	183	217	13	413	40	20	60	473	4	14	..	..	18	491	28	..
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	28
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	426	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43	
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47	
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46	
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45	
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49	
1934 ..	217	112	30	359	26	57	83	442	..	6	7	12	25	467	26	47	
1935 ..	206	107	28	341	28	56	84	425	..	5	7	11	23	448	24	44	
1936 ..	214	106	24	344	16	55	71	415	..	5	10	11	26	441	21	46	
1937 ..	205	99	29	333	20	55	75	408	..	5	12	10	27	435	19	49	
1938 ..	193	98	21	312	24	54	78	390	..	4	12	10	26	416	19	46	

[APPENDIX II.]

List of Publications issued by the Royal Asiatic Society of Bengal during 1938.

		Price.		
		Rs.	As.	P.
(a) Journal and Proceedings (Third Series):				
Vol. II (Letters) No. 3 (14 Units)	.. ..	5	4	0
„ Year-Book (15 Units)	.. ..	5	10	0
Vol. III (Letters) No. 1 (16 Units)	.. ..	6	0	0
„ „ No. 2 (24 Units)	.. ..	9	0	0
„ (Science) No. 1 (15 Units)	.. ..	5	10	0
(b) Memoirs:				
Geographic and Oceanographic Research in Indian Waters—By Lt.-Col. R. B. S. Sewell, Vol. IX, Part IX (Concluding part)		0	9	0
(c) Miscellaneous:				
Proceedings, Twenty-fifth Indian Science Congress,				
Part I, Official	.. ..	1	14	0
Part II, Presidential Addresses	.. ..	12	0	0
Proceedings, Twenty-sixth Indian Science Congress,				
Part III, Abstracts	.. ..	5	10	0

Abstract Statement
of
Receipts and Disbursements
of the
Royal Asiatic Society of Bengal
for
the Year 1938

STATEMENT No. 1.

1938

General

Income and Expenditure Account

		Rs.	As.	P.	Rs.	As.	P.
To ESTABLISHMENT :							
Salaries and Allowances	..	29,914	0	6			
Commission	..	246	12	6			
					30,160	13	0
GENERAL EXPENDITURE :							
Stationery ..	..	384	10	0			
Fans and Light	..	322	7	6			
Telephone ..	..	241	2	0			
Taxes ..	..	2,387	5	0			
Postage ..	..	1,320	3	0			
Contingencies	..	705	15	9			
Printing Circulars, etc.	..	641	8	0			
Audit Fee ..	..	250	0	0			
Petty Repairs	..	164	4	0			
Insurance ..	..	500	0	0			
Menials' Clothing	..	192	14	0			
Furniture ..	..	804	12	0			
Interest on Security Deposit	..	15	0	0			
					7,930	1	3
LIBRARY AND COLLECTIONS :							
Books ..	..	2,825	2	11			
Binding ..	..	552	4	0			
					3,377	6	11
PUBLICATIONS :							
Journal and Proceedings	..	....			6,554	15	9
CONTRIBUTION :							
Provident Fund for 1938	..	...			651	0	6
					48,674	5	5
TRANSFER TO—							
Building Repair Fund Account	..	....			2,000	0	0
SUNDRY ADJUSTMENTS :							
Depreciation, Investments revalued on 31st December, 1938	..	....			775	11	0
BALANCE AS PER BALANCE SHEET	..	....			2,93,175	8	4
					3,44,625	8	9

STATEMENT No. 1.

Fund.

1938.

for the year to 31st December, 1938.

	Rs.	As.	P.	Rs.	As.	P.
By BALANCE FROM LAST ACCOUNT			2,91,293	5	0

CASH RECEIPTS :

Interest on Investments ..	10,012	0	0			
Interest on Fixed Deposits ..	900	0	0			
Advertising ..	9,600	0	0			
Miscellaneous ..	193	4	6			
Government Grant ..	1,600	0	0			
Rent ..	9,175	0	0			
Contribution from Indian Science Congress ..	600	0	0			
				32,080	4	6

PERSONAL ACCOUNT :

Members' Subscriptions ..	9,817	0	0			
Admission Fees ..	640	0	0			
				10,457	0	0

TRANSFER FROM FUNDS :

Proportionate Share in General Expenditure—

Oriental Pub. Fund (1) Account	2,500	0	0			
Sanskrit MSS. Fund Account ..	2,000	0	0			
Arabic and Persian MSS. Fund Account ..	2,500	0	0			
				7,000	0	0

PUBLICATION FUND ACCOUNT			3,794	15	3
-----------------------------	------	--	--	-------	----	---

3,44,625 8 9

STATEMENT No. 2.

1938.

Oriental Publication

From a monthly grant made by the Government of Bengal for the
Languages (Rs. 500), and for the publication
(Less 20% from the

	Rs.	As.	P.
To Printing	3,087	12	9
Proportionate Share in General Expenditure ..	2,500	0	0
Balance as per Balance Sheet	12,566	5	2
	18,154	1	11

STATEMENT No. 3.

1938.

Oriental Publication

From an annual grant made by the Government of Bengal of
Historical
(Less 20% from the

	Rs.	As.	P.
To Printing	329	12	0
Balance as per Balance Sheet	2,144	13	5
	2,474	9	5

STATEMENT No. 4.

1938.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal
by the Society; and Rs. 3,600 from the
(Less 20% from the

	Rs.	As.	P.
To Cataloguing	1,200	0	0
Proportionate Share in General Expenditure ..	2,000	0	0
Balance as per Balance Sheet	25,167	1	3
	28,367	1	3

STATEMENT No. 2.

Fund No. 1, in Account with R.A.S.B.

1938.

publication of Oriental Works and Works of Instruction in Eastern
of Sanskrit Works hitherto unpublished (Rs. 250).
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	10,354	1	11
Annual Grant	..	..	7,800	0	0
			<hr/>		
			18,154	1	11

STATEMENT No. 3.

Fund No. 2, in Account with R.A.S.B.

1938.

Rs. 3,000 for the publication of Arabic and Persian Works of
Interest.
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	2,474	9	5
			<hr/>		
			2,474	9	5

STATEMENT No. 4.

Account, in Account with R.A.S.B.

1938.

for the publication of the Catalogue of Sanskrit Manuscripts acquired
same Government for Research Work.
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	17,487	1	3
Annual Grant for Cataloguing	.	..	10,880	0	0
			<hr/>		
			28,367	1	3

STATEMENT No. 5.

1938.

Arabic and Persian Manuscripts

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society ; for the purchase of further Manuscripts,
Manuscripts found in

	Rs.	As.	P.	Rs.	As.	P.
To Purchase of Manuscripts ..	237	0	0			
Binding	209	12	0			
Cataloguing	2,400	0	0			
Reference Works	433	6	0			
				3,280	2	0
Proportionate Share in General Expenditure .. ..	....			2,500	0	0
Balance as per Balance Sheet ..	....			1,276	0	3
				7,056	2	3

STATEMENT No. 6.

1938.

Barclay Memorial

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal				16	15	0
Depreciation, Investments revalued on 31-12-38 .. ..	....			1	12	0
Balance as per Balance Sheet— Rs. 700, 3½% G.P. Notes, 1854-55..	686	14	0			
Surplus at date	48	0	8			
				734	14	8
				753	9	8

STATEMENT No. 7.

1938.

Servants' Pension Fund

Founded in 1876 as the Piddington Fund

	Rs.	As.	P.	Rs.	As.	P.
To Pension .. ..	...			132	0	0
Depreciation, Investments revalued on 31-12-38 .. ..	...			7	8	0
Balance as per Balance Sheet— Rs. 3,000, 3½% G.P. Notes, 1854-55	2,943	12	0			
Surplus at date	892	10	8			
				3,836	6	8
				3,975	14	8

STATEMENT No. 5.

Fund Account, in Account with R.A.S.B.

1938.

the Cataloguing and Binding of Arabic and Persian Manuscripts, acquired and for the preparation of notices of Arabic and Persian various Libraries in India.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	2,056 2 3
Government Grant for 1938-39	5,000 0 0

 7,056 2 3

STATEMENT No. 6.

Fund Account, in Account with R.A.S.B.

1938.

General, I.M.S., for the foundation of a medal for the and Biological Science.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	729 5 8
Interest realized for the year	24 4 0

 753 9 8

STATEMENT No. 7.

Account, in Account with R.A.S.B.

1938.

with Rs. 500 odd from the Piddington Fund.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,871 2 8
Interest realized for the year	104 12 0

 3,975 14 8

STATEMENT No. 8.

1938.

Annandale Memorial Fund

From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. ..	....			198	1	0
Depreciation, Investments revalued on 31-12-38 .. ..	....			10	0	0
Balance as per Balance Sheet—						
Rs. 4,000, 3½% G.P. Notes, 1854-55	3,925	0	0			
Surplus at date	568	12	9			
				<hr/>	<hr/>	<hr/>
				4,493	12	9
				<hr/>	<hr/>	<hr/>
				4,701	13	9
				<hr/>	<hr/>	<hr/>

STATEMENT No. 9.

1938.

Permanent Library Endowment

From gifts received,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-38 .. ..	....			35	0	0
Balance as per Balance Sheet—						
Rs. 14,000, 3½% G.P. Notes, 1854-55	13,737	8	0			
Surplus at date	1,639	7	8			
				<hr/>	<hr/>	<hr/>
				15,376	15	8
				<hr/>	<hr/>	<hr/>
				15,411	15	8
				<hr/>	<hr/>	<hr/>

STATEMENT No. 10.

1938.

Sir William Jones Memorial

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. ..	....			277	11	0
Depreciation, Investments revalued on 31-12-38 .. ..	....			7	8	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,943	12	0			
Surplus at date	44	7	0			
				<hr/>	<hr/>	<hr/>
				2,988	3	0
				<hr/>	<hr/>	<hr/>
				3,273	6	0
				<hr/>	<hr/>	<hr/>

STATEMENT No. 8.

Account, in Account with R.A.S.B.

1938.

started in 1926.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			4,563	5	9
Interest realized for the year			138	8	0

4,701 13 9

STATEMENT No. 9.

Fund Account, in Account with R.A.S.B.

1938.

started in 1926.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			14,922	15	8
Interest realized for the year			489	0	0

15,411 15 8

STATEMENT No. 10.

Fund Account, in Account with R.A.S.B.

1938.

1926, by Dr. U. N. Brahmachari.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,168	10	0
Interest realized for the year			104	12	0

3,273 6 0

STATEMENT No. 11.

1938.

Pramathanath Bose Memorial

From a sum gifted for

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-38 .. .. .	....			4	8	0
Balance as per Balance Sheet—						
Rs. 800, 3½% G.P.N., 1842-43 } ..	1,766	4	0			
„ 1,000, „ „ 1865 } ..						
Surplus at date	208	15	0			
				1,975	3	0
				1,979	11	0

STATEMENT No. 12.

1938.

Joy Gobind Law Memorial

From a donation for the purpose

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-38. .. .. .	....			7	8	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,943	12	0			
Surplus at date	296	8	0			
				3,240	4	0
				3,247	12	0

STATEMENT No. 13.

1938.

*Building Fund*From a sum of Rs. 40,000 given by the Government of India
proceeds of a portion

	Rs.	As.	P.
To Balance as per Balance Sheet	6,321	9	6
	6,321	9	6

STATEMENT No. 11.

Fund Account, in Account with R.A.S.B.

1938.

the purpose in 1935.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			1,927	1	0
Interest realized for the year			52	10	0

1,979 11 0

STATEMENT No. 12.

Fund Account, in Account with R.A.S.B.

1938.

in 1929, by Dr. Satya Churn Law.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,143	0	0
Interest realized for the year			104	12	0

3,247 12 0

STATEMENT No. 13.

Account, in Account with R.A.S.B.

1938.

towards the rebuilding of the Society's premises, and from the sale of the Society's land.

			Rs.	As.	P.
By Balance from last Account	..	..	6,321	9	6
			6,321	9	6

STATEMENT No. 14.

1938.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-38				7	8	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,943	12	0			
Surplus at date	978	2	7			
				3,921	14	7
				3,929	6	7

STATEMENT No. 15.

1938.

Dr. Brühl Memorial Fund

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-38				2	8	0
Balance as per Balance Sheet—						
Rs. 1,000, 3½% G.P. Notes, 1854-55	981	4	0			
Surplus at date	91	8	0			
				1,072	12	0
				1,075	4	0

STATEMENT No. 16.

1938.

Building Repair Fund

	Rs.	As.	P.
To Building Repairs	170	14	0
Balance as per Balance Sheet	9,979	3	6
	10,150	1	6

STATEMENT No. 14.

Fund Account, in Account with R.A.S.B.

1938.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,824	10	7
Interest realized for the year			104	12	0

 3,929 6 7

STATEMENT No. 15.

Account, in Account with R.A.S.B.

1938.

1929, by the Brühl Farewell Committee.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			1,040	8	0
Interest realized for the year			34	12	0

 1,075 4 0

STATEMENT No. 16.

Account, in Account with R.A.S.B.

1938.

			Rs.	As.	P.
By Balance from last Account	..	..	8,150	1	6
Transfer from R.A.S.B. General Fund	..	..	2,000	0	0
			10,150	1	6

STATEMENT No. 17.

1938.

International Catalogue of Scien-

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	4,374	7	8
			<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

1938.

Provident Fund

From contributions by the

			Rs.	As.	P.	Rs.	As.	P.
To Payments during the year	..	....	2,667	5	9			
Cost of a stamp	..	....		0	1	0		
Balance as per Balance Sheet—								
Rs. 5,000, 3% G.P. Notes, 1941	..	5,137	8	0				
„ 6,000, 5-year Postal Cash Cer-	..	6,000	0	0				
tificates	..							
Savings Bank and Advances	..	6,190	12	4				
			<u>17,328</u>	<u>4</u>	<u>4</u>			
						<u>19,995</u>	<u>11</u>	<u>1</u>

STATEMENT No. 19.

1938.

Advances

			Rs.	As.	P.
To Balance from last Account	..	..	1,210	0	0
Payments during the year	..	..	1,037	0	0
			<u>2,247</u>	<u>0</u>	<u>0</u>

STATEMENT No. 17.

tific Literature, in Account with R.A.S.B.

1938.

			Rs.	As.	P.
By Balance from last Account	..	..	4,374	7	8
			<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

Account, in Account with R.A.S.B.

1938.

Society and its Staff.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	..	....			18,214	14	1
Interest realized during the year	..		57	8	0			
Staff Contribution for the year	..		651	0	6			
Society's Contribution for the year	..		651	0	6			
						<u>1,359</u>	<u>9</u>	<u>0</u>
Interest realized from Savings Bank, etc.	..	..	....			196	4	0
Appreciation, Investments revalued on 31-12-38	..	..	....			225	0	0
						<u>19,995</u>	<u>11</u>	<u>1</u>

STATEMENT No. 19.

Account, in Account with R.A.S.B.

1938.

			Rs.	As.	P.
By Refunds during the year	..	..	1,587	0	0
Balance as per Balance Sheet	..	..	660	0	0
			<u>2,247</u>	<u>0</u>	<u>0</u>

STATEMENT No. 20.

1938.

Personal

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			3,714	1	6
Advances .. ..	....			5,734	2	3
Asiatic Society's Subscriptions, etc.	10,457	0	0			
Subscriptions to Journal, and from Book Sales, etc.	3,794	15	3			
				14,251	15	3

23,700 3 0

STATEMENT No. 21.

1938.

Publication Fund Account,

From sale proceeds

	Rs.	As.	P.	Rs.	As.	P.
To Books returned, etc.			95	14	0
Balance as per Balance Sheet			7,492	6	9
				7,588	4	9

STATEMENT No. 20.

Account.

1938.

		Rs.	As.	P.		Rs.	As.	P.
By Cash Receipts during the year				18,364	15	6
Books returned				95	14	0
Balance as per Balance Sheet				5,239	5	6

Outstandings.	Amount due to the Society.			Amount due by the Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members ..	4,191	14	0	856	6	0
Subscribers, etc.	610	12	0	72	0	0
Bill Collector's						
Deposit ...	..		...	100	0	0
Miscellaneous	1,611	4	0	846	2	6
	6,413	14	0	1,174	8	6

23,700 3 0

STATEMENT No. 21.

in Account with R.A.S.B.

1938.

of publications.

		Rs.	As.	P.		Rs.	As.	P.
By Balance from last Account				7,476	0	9
Cash Sale of Publications				112	4	0
						7,588	4	9

STATEMENT No. 22.

1938.

(1) *Deposit Account (Savings Bank*

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			6,091	12	1
Deposits of Interest realized from loans during the year ..	57	8	0			
Deposits of Contributions during the year	1,294	13	0			
Deposits of Advances returned ..	1,587	0	0			
				2,939	5	0
Interest for the year 1938 ..	....			196	4	0
				9,227	5	1

STATEMENT No. 23.

1938.

(2) *Deposit Account (Fixed Deposit*

	Rs.	As.	P.
To Balance from last Account	60,000	0	0
Deposits during the year	10,000	0	0
	70,000	0	0

STATEMENT No. 22.*Deposit with Imperial Bank of India).***1938.**

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal for Staff Advances, etc.			3,704	5	9
Cost of a stamp			0	1	0
Balance as per Balance Sheet			5,522	14	4

 9,227 5 1

STATEMENT No. 23.*with Imperial Bank of India).***1938.**

	Rs.	As.	P.
By Balance as per Balance Sheet	70,000	0	0

 70,000 0 0

STATEMENT No. 24.

1938.

(3) Investment

Rs. As. P.

To Balance from last Account 3,25,226 5 0

3,25,226 5 0

Face Value Rs.	FUNDS	Rate @ Rs %	31st December, 1938, Valuation.		31st December, 1937, Valuation.		Depreciation, or Appreciation.	
			Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
	ROYAL ASIATIC SOCIETY OF BENGAL.							
	PERMANENT RESERVE.							
16,700	8½% G.P. Notes, 1842-48 ...	}						
1,53,700	8½% G.P. Notes, 1854-55 ...							
44,800	8½% G.P. Notes, 1865 ..							
6,000	8½% G.P. Notes, 1879 ..							
88,000	8½% G.P. Notes, 1900-01 ...							
2,58,700		98/2-	2,48,943	2 0	2,40,577	6 0	684	4
500	8% G.P. Notes, 1896-97 ..	87/14/-	489	6 0	450	5 0	10	15
	TEMPORARY RESERVE							
18,000	8½% G.P. Notes, 1900-01 ...	98/2-	17,602	8 0	17,707	8 0	45	0
11,400	4½% Loan, 1955-60 ...	118/12/-	18,537	8 0	18,623	0 0	85	8
	BARCLAY MEMORIAL FUND.							
700	8½% G.P. Notes, 1854-55 ...	98/2-	688	14 0	688	10 0	1	12
	SERVANTS' PENSION FUND							
8,000	8½% G.P. Notes, 1854-55 ...	98/2-	2,94	12 0	2,951	4 0	7	8
	ANNANDALE MEMORIAL FUND.							
4,000	8½% G.P. Notes, 1854-55 ...	98/2-	3,925	0 0	3,935	0 0	10	0
	PERMANENT LIBRARY ENDOWMENT FUND.							
14,000	8½% G.P. Notes, 1854-55 ...	98/2-	13,737	8 0	13,772	8 0	35	0
	SIR WILLIAM JONES MEMORIAL FUND.							
3,000	8½% G.P. Notes, 1854-55 ...	98/2-	2,943	12 0	2,951	4 0	7	8
	PRAMATHANATH BOSE MEMORIAL FUND							
800	8½% G.P. Notes, 1842-48 ...	}						
1,000	8½% G.P. Notes, 1865 ..							
	JOY GOBIND LAW MEMORIAL FUND.							
3,000	8½% G.P. Notes, 1854-55 ...	98/2-	2,943	12 0	2,951	4 0	7	8
	CALCUTTA SCIENCE CONGRESS PRIZE FUND.							
3,000	8½% G.P. Notes, 1854-55 ...	98/2-	2,943	12 0	2,951	4 0	7	8
	DR BRÜHL MEMORIAL FUND.							
1,000	8½% G.P. Notes, 1854-55 ...	98/2-	981	4 0	988	12 0	2	8
	PROVIDENT FUND.							
5,000	3% Loan, 1941 ...	102/12/-	5,187	8 0	5,175	0 0	87	8
6,000	Post Office 5-year Cash Certificates	100/-	6,000	0 0	5,737	8 0	262	8
3,28,100			3,24,591	14 0	3,25,226	5 0	684	7

STATEMENT No. 24.

*Account.**1938.*

	Rs.	As.	P.
By Depreciation, Investments revalued on 31-12-38 ..	634	7	0
Balance as per Balance Sheet	3,24,591	14	0
	3,25,226	5	0

STATEMENT No. 25.

1938.

Cash

For the year ended 31st

To	Rs.	As.	P.	Rs.	As.	P.
Balance from last Account .. .. .			....	9,150	14	1
General Fund Account	32,080	4	6			
Oriental Publication Fund No. 1 Account	7,800	0	0			
Sanskrit Manuscripts Fund Account	10,880	0	0			
Arabic and Persian Fund Account	5,000	0	0			
Barclay Memorial Fund Account	24	4	0			
Servants' Pens on Fund Account	104	12	0			
Annandale Memorial Fund Account	138	8	0			
Permanent Library Endowment Fund Account	489	0	0			
Sir William Jones Memorial Fund Account	104	12	0			
Pramathanath Bose Memorial Fund Account	52	10	0			
Joy Gobind Law Memorial Fund Account	104	12	0			
Calcutta Science Congress Prize Fund Account	104	12	0			
Dr. Bruhl Memorial Fund Account	34	12	0			
Provident Fund Account	1,359	9	0			
Advances Account	1,587	0	0			
Personal Account	18,364	15	6			
Publication Fund Account	112	4	0			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	3,704	5	9			
				82,046	8	9
				91,197	6	10

STATEMENT No. 25.

Account.

1938.

December, 1938.

By	Rs. As. P.	Rs. As. P.
General Fund Account	48,674 5 5	
Oriental Publication Fund No. 1 Account ..	3,087 12 9	
Oriental Publication Fund No. 2 Account ..	329 12 0	
Sanskrit Manuscripts Fund Account ..	1,200 0 0	
Arabic and Persian Fund Account ..	3,280 2 0	
Barclay Memorial Fund Account ..	16 15 0	
Servants' Pension Fund Account ..	132 0 0	
Annandale Memorial Fund Account ..	198 1 0	
Sir William Jones Memorial Fund Account ..	277 11 0	
Building Repair Fund Account ..	170 14 0	
Provident Fund Account	2,667 5 9	
Advances Account	1,037 0 0	
Personal Account	5,734 2 3	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	2,939 5 0	
Fixed Deposit Account, Imperial Bank of India, Calcutta	10,000 0 0	
		79,745 6 2
Balance as per Balance Sheet—		
In hand	133 6 6	
With the Imperial Bank of India, on Current Account	11,318 10 2	
		11,452 0 8
		91,197 6 10

STATEMENT No. 26.

1938.

Balance

As at 31st

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund Account	2,93,175	8	4			
Oriental Publication Fund No. 1 Account	12,566	5	2			
Oriental Publication Fund No. 2 Account	2,144	13	5			
Sanskrit Manuscripts Fund Account ..	25,167	1	3			
Arabic and Persian Manuscripts Fund Account	1,276	0	3			
Barclay Memorial Fund Account ..	734	14	8			
Servants' Pension Fund Account ..	3,836	6	8			
Annandale Memorial Fund Account ..	4,493	12	9			
Permanent Library Endowment Fund Account	15,376	15	8			
Sir William Jones Memorial Fund Account	2,988	3	0			
Pramathanath Bose Memorial Fund Account	1,975	3	0			
Joy Gobind Law Memorial Fund Account	3,240	4	0			
Building Fund Account	6,321	9	6			
Calcutta Science Congress Prize Fund Account	3,921	14	7			
Dr Bruhl Memorial Fund Account ..	1,072	12	0			
Building Repair Fund Account ..	9,979	3	6			
International Catalogue of Scientific Literature, London	4,374	7	8			
Provident Fund Account	17,328	4	4			
Publication Fund Account	7,492	6	9			
				4,17,466	2	6
				4,17,466	2	6

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and, in our opinion, set forth correctly the position of the Society as at 31st December, 1938

PRICE, WATERHOUSE, PEAT & Co.,

Auditors,

Calcutta,
3rd February, 1939Chartered Accountants
Registered Accountants.

1938.

December, 1938.

ASSETS.				Rs. As. P.		Rs. As. P.	
Advances Account	..	..	660	0	0		
Personal Account	..	..	5,239	5	6		
						5,899	5 6
Deposits:—							
Savings Bank Deposit Account,			5,522	14	4		
Imperial Bank of India	..	..			
Fixed Deposit Account, Imperial Bank			70,000	0	0		
of India	..	..				75,522	14 4
Investment Account	..	..	....			3,24,591	14 0
Cash Account:—							
In hand	..	..	133	6	6		
With the Imperial Bank of India,							
on Current Account	..	..	11,318	10	2		
						11,452	0 8
						4,17,466	2 6

PERCY BROWN,
Honorary Treasurer.

[APPENDIX IV.]

Abstract Proceedings Council, 1938.

(Rule 48 f.)

ACCOMMODATION—

Letter of thanks from the Mining, Geological and Metallurgical Institute of India. Record.

No. 1. 31-1-38.

Request for the use of the Society's Hall by the Bengal Library Association. Action approved.

No. 1. 25-7-38.

Request for the use of the Society's Hall by the Mining, Geological and Metallurgical Institute of India. Grant.

No. 2. 25-7-38.

Letter of thanks from the Mining, Geological and Metallurgical Institute of India. Record.

No. 1. 29-8-38.

Editorial room. Report by the General Secretary about rearrangements for preparation of a room on the ground floor to be set aside for editorial work at an estimated cost of about Rs.250 exclusive of furniture. Action approved.

No. 14. 29-8-38.

Request for the use of the Society's lecture hall by the Mining, Geological and Metallurgical Institute of India. Action approved.

No. 3. 28-11-38.

Request for the use of the Society's hall for a lantern lecture by the Honorary Secretary, Himalayan Club. Grant.

No. 17. 19-12-38.

AGENCIES—

Application for sale agency of the Society's publications from Messrs. The Moore-Cottrell Subscription Agencies, New York, U.S.A. Accept on the same terms for discount as apply to our other foreign agents. Specify that the Society reserves the right to terminate the agreement at any time.

No. 5. 31-10-38.

ANNUAL MEETING—

Annual Report, 1937. Approved.

No. 13. 31-1-38.

Annual Meeting, 1938. General Secretary to arrange.

No. 12. 31-1-38.

Annual Meeting. The General Secretary to invite the Governor of Bengal to preside at the Society's Annual Meeting, on Monday, February 6th.

No. 18

19-12-38.

BUDGET—

Recommendation Special Finance Committee of 27-1-38. The Committee considered the budget proposals as put up for the year 1938 and in this connection made the following recommendation:

1. In connection with the Government Grants the Committee recommends that the Council should approach the various Governments for the restoration of cuts imposed owing to financial stringency in 1931-32.

2. The Committee recommends that the increment to the staff should be given as under. (See under staff.)

3. The Committee found that very little expenditure has been incurred during the year in the purchase of books, as also on the publication of Journal and Memoirs. The Committee considers that these very vital activities of the Society should be specially stimulated and accordingly recommends that special grants out of the working balance accrued as excess of income over expenditure during 1937 be provided next year for Library and for bringing the arrears of publication of the Society up-to-date. Accepted by Council.

No. 7.

31-1-38.

Recommendation Finance Committee No. 5 of 27-10-38. Typewriter. Recommend purchase of a new typewriter, balance of cost beyond amount available in current year's budget to be debited to next year's furniture account. Council order: The Honorary Treasurer should arrange for the funds required by re-appropriation from another budget head.

No. 10.

31-10-38.

Recommendation Special Finance Committee of 19-12-38. Consideration of budget estimates for 1939-40. Unanimously recommend to Council that the estimates as placed before the Committee be adopted. Also recommend that any savings during the year should first be devoted to the heads of the library, including binding. Accepted by Council.

No. 11.

19-12-38.

BUILDING—

Recommendation Finance Committee No. 6. of 27-10-38. Periodical repairs to building. The General Secretary to be authorized to call for inspection and estimate for periodical repairs to building. Accepted by Council.

No. 10.

31-10-38.

Recommendation Finance Committee No. 2 of 19-12-38. Estimates for building repairs from Messrs. Martin & Co., and Messrs. Jardine Menzies & Co. Accept the estimate of Messrs. Martin & Co.; repairs to be undertaken after the Society's Annual Meeting. Accepted by Council.

No. 12.

19-12-38.

COINS—

Report presentation of a set of old coins to the Society by Mr. G. P. Tate. Accept with thanks. Mr. Majumdar to be requested to examine the collection and to report to Council.

No. 1.

28-3-38.

COMMITTEES—

Constitution Standing Committees of the Society for 1938-39. The Standing Committee of the Society for 1938-39 to be constituted as follows:—

- | | | | |
|------------------------|---|---|--------------------|
| 1. <i>Finance.</i> | The President
General Secretary
Treasurer
Dr. Bains Prashad.
Dr. J. N. Mukherjee.
Sir U. N. Brahmachari.
Lt.-Col. N. Barwell. | } | <i>Ex-officio.</i> |
| 2. <i>Library.</i> | President
General Secretary
Treasurer
Philological Secretary
Jt. Philological Secretary
Natural History Secretary
Physical Science Secretary
Anthropological Secretary
Medical Secretary
Library Secretary | } | <i>Ex-officio.</i> |
| 3. <i>Publication.</i> | President
General Secretary
Treasurer
Philological Secretary
Jt. Philological Secretary
Natural History Secretary
Physical Science Secretary
Anthropological Secretary
Medical Secretary
Library Secretary | } | <i>Ex-officio.</i> |

No. 4.

28-2-38.

Consideration of a circular letter to the Council. Order: No action.

Further, proposed by Mr. W. D. West and seconded by Dr. J. N. Mukherjee, resolved that a Special Committee consisting of Sir John Lort-Williams (Chairman), Sir U. N. Brahmachari, Prof. J. N. Mukherjee, Dr. Bains Prashad and Mr. W. D. West (Secretary) be appointed to consider and report to the Council on ways and means of re-organizing the staff, with the recommendation that an Assistant Secretary be appointed if a suitable salary can be provided, and in such case to recommend his qualification and define his duties.

Special Council.

28-3-38.

Report of the special Sub-Committee of the Council on the re-organization of the work of the Society. Adopt. Unanimously resolved that a vote of thanks to the Sub-Committee in appreciation of the work done by them be recorded. Further resolved that the Special Sub-Committee be authorized to negotiate with the Indian Science Congress Association and the National Institute of Sciences of India for the purpose of implementing their recommendations; also resolved that the General Secretary be co-opted to the Special Sub-Committee when selecting and recommending to the Council any candidate for appointment as temporary Assistant Secretary.

No. 4.

30-5-38.

Correspondence with Dr. S. L. Hora concerning the staff hours of the Society's office.

Correspondence with Dr. S. L. Hora concerning his intention to release to the press the correspondence that has passed between him and the Society.

Correspondence with Dr. S. L. Hora concerning the interpretation of Rule 60a—Council Meetings during recess months.

Proposed by Dr. Baini Prashad and seconded by Dr. S. K. Chatterji.

The Council after careful consideration of the correspondence that has passed between Dr. S. L. Hora and the General Secretary regarding certain discrepancies between the printed rules and regulations and the existing practice in the Society resolved that a Committee be appointed to make recommendations, if necessary, regarding any rules or practices of the Society. Carried unanimously. Committee: President, General Secretary, Honorary Treasurer, Lt.-Col. N. F. Barwell, the Asst. Secretary as Assessor.

Nos. 7, 8 & 9.

31-10-38.

Confirmation minutes of the Council Meeting of 31-10-38. Order: Confirm after addition of Dr. Baini Prashad's name as a member of the Committee for Rules and Practices.

Council.

28-11-38.

Letter from Dr. S. L. Hora concerning the Sub-Committee on Rules together with a reply thereto. Record.

No. 5.

28-11-38.

Letter from the Honorary General Secretary, All-India Oriental Conference, forwarding proposals for the foundation of an Indian Academy of Arts and Letters. A Sub-Committee consisting of Messrs. S. K. Chatterji, M. H. Hossain, Percy Brown, J. N. Mukherjee and Johan van Manen be constituted to report to Council on the question of the foundation of an Indian Academy of Arts and Letters.

No. 5.

19-12-38.

Recommendation of the Joy Gobind Law Memorial Medal Advisory Board suggesting certain amendment to the award rules. The recommendation being put to the vote, was rejected with 8 to 7 votes. Further resolved: that a Sub-Committee be constituted consisting of Messrs. J. N. Mukherjee, Baini Prashad, A. M. Heron, N. Barwell, K. C. Mahindra, the ex-officio Members as well as ex-officio members of the various Medal Advisory Boards to consider the desirability of the enlargement of the various medal award Boards and to report to Council.

No. 6.

19-12-38.

COUNCIL—

Vote of thanks to outgoing Council. Resolved: that the Council's thanks be conveyed to the outgoing members of Council.

No. 15.

31-1-38.

Signatures signifying formal acceptance of seats on the Council by Council Members. Record.

No. 1.

28-2-38.

Circular letter from certain members of Council. Resolved: that the President be requested to convene a special meeting of the Council to consider the circular at 5-45 p.m. on the date of next Council Meeting and to follow that Ordinary Meeting.

No. 13.

28-2-38.

Consideration of a circular letter to the Council. No action.

Further, proposed by Mr. W. D. West and seconded by Dr. J. N. Mukherjee, resolved that a Special Committee consisting of Sir John Lort-Williams (Chairman), Sir U. N. Brahmachari, Prof. J. N. Mukherjee, Dr. Baini Prashad and Mr. W. D. West (Secretary) be appointed to consider and report to the Council on ways and means of re-organizing the staff, with the recommendation that an Assistant Secretary be appointed if a suitable salary can be provided, and in such case to recommend his qualification and define his duties.

Special Council.

28-3-38.

Letter from Dr. S. L. Hora to the General Secretary. Record. The Council in a future meeting to consider specially Dr. Hora's various expressions regarding the Council in his recent correspondence with the General Secretary.

No. 4.

29-8-38.

Council meetings during recess months. No Council meeting to be convened for September unless for special reasons.

No. 11.

29-8-38.

Leave: Honorary Treasurer. Letter from Honorary Treasurer intimating absence from Calcutta for about a fortnight in September. General Secretary to officiate.

No. 12.

29-8-38.

Leave: General Secretary. Intimation by the General Secretary of his desire to absent himself from Calcutta for about three weeks in September and October. Approved. Honorary Treasurer to be requested to officiate for General Secretary during his absence.

No. 13.

29-8-38.

Correspondence with Dr. S. L. Hora concerning the interpretation of Rule 60a—Council Meetings during recess months.

Proposed by Dr. Baini Prashad and seconded by Dr. S. K. Chatterji.

The Council after careful consideration of the correspondence that has passed between Dr. S. L. Hora and the General Secretary regarding certain discrepancies between the printed rules and regulations and the existing practice in the Society resolved that a committee be appointed to make recommendations, if necessary, regarding any rules or practices of the Society. Carried unanimously. Committee:—President, General Secretary, Honorary Treasurer, Lt.-Col. N. F. Barwell. Dr. Baini Prashad, Asst. Secretary as Assessor.

No. 9.

31-10-38.

Report death of Mr. N. G. Majumdar. Record with regret; the members standing. Dr. Baini Prashad was requested to write an obituary notice.

No. 2.

28-11-38.

Fixing dates for the December Council and Committee Meetings. Council meeting on Monday the 19th of December. Finance Committee meetings on the same date at 4 p.m.

No. 7.

28-11-38.

Informal consideration of the composition of Council for 1939/40.

After discussion the following list of candidates for nomination to next year's Council was placed before the meeting for consideration.

President	..	..	Sir David Ezra.
Vice-President	..	..	Sir B. C. Mahtab, Maharajadhiraja Bahadur of Burdwan.
"	..	..	Lt.-Col. N. F. Barwell.
"	..	..	Bt.-Col. R. N. Chopra.
"	..	..	Sir John Lort-Williams.
General Secretary	..	..	Mr. Johan van Manen.
Treasurer	..	..	Mr. Percy Brown.
Philological Secretary	..	..	Dr. S. K. Chatterji.
Jt. Philological Secretary	..	..	Dr. M. Hidyat Hosain.
Nat. Hist. Secretary (Biology)	..	..	Dr. Baini Prashad.
Nat. Hist. Secretary (Phy. Sci.)	..	..	Dr. J. N. Mukherjee.
Anthropological Secretary	..	..	Dr. B. S. Guha.
Medical Secretary	..	..	Sir U. N. Brahmachari.
Library Secretary	..	..	Mr. M. Mahfuz-ul Haq.
Member of Council	..	..	Mr. K. C. Mahindra.
"	"	..	Major C. L. Pasricha.
"	"	..	Dr. K. P. Biswas.
"	"	..	Dr. H. C. Ray.
"	"	..	Dr. C. S. Fox.
"	"	..	Mr. M. A. F. Hirtzel.

Resolved that the General Secretary do print and circulate to the members of the Council the list of the Council as at present constituted together with the new list placed before the meeting, and provided with a blank column for additional names, and these lists be returned to the General Secretary within a week of date of issue; that a list be compiled of the candidates finally proposed and be placed before the next Council meeting to be voted upon.

No. 14.

28-11-38.

Letter from Sir U. N. Brahmachari regarding the disclosure of Council deliberations to the press. The Council unanimously condemns the action through which deliberations of the Council have been allowed to leak out to the press.

No. 10.

19-12-38.

Council nomination, 1939-40. The General Secretary reported that 18 Council members had returned the list of candidates circulated duly signed, with 4 containing alternative suggestions. Resolved: To include the name of Dr. Syamaprasad Mookerjee in place of Dr. Hem Chandra Ray in the list of names placed before the Council in the November meeting and this revised list be declared that of the Council's candidates for election to next year's Council, and that it be ordered to be issued to the Resident Members as prescribed by Rule 44.

No. 16.

19-12-38.

EXCHANGE OF PUBLICATIONS—

Applications for an exchange of publications from :

- (a) The University of Queensland, Brisbane. Decline.
- (b) The University of California, Los Angeles, U.S.A. Decline.
- (c) Geographische Gesellschaft in Hamburg, Germany. Accept exchange for last 10 years and future issues.
- (d) The Editor, Journal of Indian History, Madras. Ask for further information.

Resolved: that all further applications for exchange of publications should be considered by the Library Committee before submission to the Council.

No. 4.

31-10-38.

Recommendation Library Committee No. 2 of 28-11-38. Application for an exchange of Sanskrit Manuscript Catalogue from the Librarian, Mysore University. Write and ask for details of their publications to be offered in exchange. Accepted by Council.

No. 11.

28-11-38.

Recommendation Library Committee No. 2 of 19-12-38. Request for the presentation of the Society's publication from *Chemisches Zentralblatt*, Berlin. Exchange Journal (Science) and Memoirs for '*Chemisches Zentralblatt*'; refer the question of the exchange of 'Proceedings' of the I.S.C. to the Indian Science Congress Association. Accepted by Council.

No. 13.

19-12-38.

FELLOWS—

Suggestion from Dr. S. L. Hora concerning nomination by Fellows, R.A.S.B., for various medals awarded by the Society every year. No action.

No. 6.

25-4-38.

Materials in connection with the Society's Fellowship and Medal awards consequent on resolution passed in the meeting of Resident Fellows on 22-6-38. Postpone consideration and re-circulate together with the minutes of the meeting of Resident Fellows held on Wednesday the 22nd June, 1938.

No. 7.

25-7-38.

Materials in connection with the Society's Fellowship and Medal awards consequent on resolution passed in the meeting of Resident Fellows on 22-6-38. Record materials. The resolution of the meeting of Resident Fellows held on the 22nd of June and communicated to the Council was considered and put to the vote. The result: for 4, against 6. The resolution was declared lost.

No. 5.

29-8-38.

FINANCE—

Recommendation Finance Committee No. 2 of 26-5-38. Consideration Fixed Deposit (Receipt No. 69290) for Rs.10,000 with Imperial Bank of India, which will mature on 24-6-38. Authorize Treasurer to dispose of as seems to him most desirable. Accepted by Council.

No. 7.

30-5-38.

Recommendation Finance Committee No. 4(b) of 25-7-38. Renewal of Fixed Deposit (Receipt No. 80040) for Rs.10,000 with the Imperial Bank of India which will mature on 21-8-38. Renew. Accepted by Council.

No. 8.

25-7-38.

Recommendation Finance Committee No. 3 of 29-8-38. Application from Society's Collecting Sircar. Reduce the security deposit from Rs.300 to Rs.100 and fix his remuneration at the usual commission of 5% on collection with a guaranteed minimum of Rs.20. Accepted by Council.

No. 6.

29-8-38.

Recommendation Finance Committee No. 4 of 27-10-38. Renewal Fixed Deposit (No. 80102) for Rs.10,000 with the Imperial Bank of India which will mature on 29-10-38. Renew fixed deposit on maturity for one year. Place another Rs.10,000 on fixed deposit for 13 months. Accepted by Council.

No. 10.

31-10-38.

Recommendation Finance Committee No. 3 of 19-12-38. Authority for payment of bills till next Finance Committee Meeting. That the Honorary Treasurer be authorized to make payments of bills before they are being formally passed by the Finance Committee. Accepted by Council.

No. 12.

19-12-38.

FURNITURE—

Recommendation Finance Committee No. 5 of 27-10-38. Typewriter. Recommend purchase of a new typewriter, balance of cost beyond amount available in current year's budget to be debited to next year's furniture account. Council order: The Honorary Treasurer should arrange for the funds required by re-appropriation from another budget head.

No. 10.

31-10-38.

INDIAN MUSEUM—

Representation of the Society on the Board of Trustees of the Indian Museum. The Society's representative to be Sir U. N. Brahmachari.

No. 5.

28-11-38.

INDIAN SCIENCE CONGRESS ASSOCIATION—

The General Secretary suggested that no correspondence with the Indian Science Congress Association should be opened with regard to the recommendations of the re-organization committee before consideration by the Council of his forthcoming report to the Council concerning proposals consequent on the appointment of the Asst. Secretary. Approved.

No. 15.

29-8-38.

Letter from the General Secretary, Indian Science Congress Association, forwarding the minutes of the Executive Committee, I.S.C.A., for consideration of the Council. Unanimously resolved that the suggested separation be accepted. The question of the provision of a room for the Institution to be referred to the Special Committee on reorganization.

No. 6.

28-11-38.

LECTURES—

The question of a public lecture by Mr. Gedda on 'Sweden, Old and New'. Accept the offer; the General Secretary to arrange.

No. 4.

28-3-38.

Offer by Miss M. Root to give a lecture on Bahaism. Convey thanks to the lecturer for the kind offer, and express regret that available time is insufficient for proper arrangement of lecture.

No. 15.

28-11-38.

LIBRARY—

Recommendations Special Finance Committee of 27-1-38. The Committee considered the budget proposals as put up for the year 1938 and in this connection made the following recommendation:—

3. The Committee found that very little expenditure has been incurred during the year in the purchase of books, as also on the publication of Journal and Memoirs. The Committee considers that these very vital activities of the Society should be specially stimulated and accordingly recommends that special grants out of the working balance accrued as excess of income over expenditure during 1937 be provided next year for Library and for bringing the arrears of publication of the Society up-to-date. Accepted by Council.

No. 7.

31-1-38.

Recommendation Library Committee No. 2 of 28-2-38. Suggestion for the purchase of German and French Encyclopædia. That the latest edition of the German Brockhaus be purchased at once and a good French Encyclopædia towards the end of the year. Accepted by Council.

No. 6.

28-2-38.

Recommendations Library Committee No. 2 of 28-11-38. Application for an exchange of Sanskrit Manuscript Catalogue from the Librarian, Mysore University. Write and ask for details of their publications to be offered in exchange. Accepted by Council.

No. 11.

28-11-38.

Recommendations Library Committee No. 3 of 28-11-38. Presentation by Dr. Bains Prashad as Director of Zoological Survey of India of 57 volumes of books to the Society's Library. Accept with thanks; transfer the items specified in Dr. Heron's note to the Geological Survey of India. Accepted by Council.

Nos. 1 & 11.

28-11-38.

Recommendation Library Committee No. 2 of 19-12-38. Request for the presentation of the Society's publication from *Chemisches Zentralblatt*, Berlin. Exchange Journal (Science) and Memoirs for '*Chemisches Zentralblatt*'; refer the question of the exchange of 'Proceedings' of the I.S.C. to the Indian Science Congress Association. Accepted by Council.

No. 13.

19-12-38.

LOAN OF MSS.—

Application for loan of manuscripts:

(a) Dr. N. N. Law, Calcutta, for 'Stotrasamgraha'. Lend against indemnity bond to the value of Rs.100.

(b) Adyar Library, Madras, for 'Sangitaratnakara'. Lend against indemnity bond to the value of Rs.500. The applicants should be informed that the manuscript is fragile and so it should be very carefully handled.

(c) Bhandarkar Oriental Research Institute, Poona, for five manuscripts as follows:

1. 'Siddhantavijaya'. Lend against indemnity bond to the value of Rs.100.

2. 'Sangitavidyabhidhana', 'Sangitasamgraha', and 'Nartakamirna' on behalf of Mr. M. R. Kavi of Madras. Lend Nos. 1 and 2 to the value of Rs.100 and Rs.50 respectively; intimate to them that the third is out on loan.

3. 'Padyatarangini.' Lend against indemnity bond to the value of Rs.25.

(d) Syed Ata Hosain, Hyderabad, for 'Ishque Nama'. Lend against indemnity bond to the value of Rs.200.

No. 6.

31-1-38.

Application for loan of Kritya-Kalpataru Manuscript by Rao Bahadur K. V. Rangaswami Ayyangar of Benares Hindu University. Lend against indemnity bond to the value of Rs.200.

No. 3.

28-2-38.

Application for an extension of the period of the loan of MS. 'Nartakamirna' for two months by Mr. O. C. Gangoly. Decline.

No. 7.

28-3-38.

Letter from Dr. B. S. Guha requesting to procure four manuscripts for a member from Tanjore and Poona. Procure.

No. 13.

28-3-38.

Letter from Mrs. Roma Chaudhuri requesting that three manuscripts from the India Office may be procured for her use. Procure.

No. 14.

28-3-38.

Application for loan of manuscripts from:

- (a) The Punjab University Library for 13 manuscripts of Padma-purana. The General Secretary to be authorized to lend, but first to endeavour to reduce the number to be sent out simultaneously.

- (b) The Registrar, Dacca University, for Kritya-Tattvarnava manuscript for a period of six months. Lend against indemnity bond to the value of Rs.250.

No. 6.

28-3-38.

Application for the loan of manuscripts:

- (a) Dr. R. C. Majumdar, Dacca, for 'Gulzar-i-Abrar'. Lend against indemnity bond to the value of Rs.1,000 and draw attention to its rarity requiring special care whilst in borrower's custody.

- (b) Mr. Abdul Haq, Honorary Secretary, Anjumane Taraqqie Urdu, Hyderabad, for 'Bhoghal'. Lend against indemnity bond to the value of Rs.1,000.

- (c) Mrs. Roma Chaudhuri, Calcutta, for two manuscripts of 'Kalamadhava Lakshmi' as she is going out of Calcutta. Lend against indemnity bonds to the value of Rs.250 and Rs.25 respectively.

No. 7.

25-4-38.

Application for loan of manuscripts from:

- (a) B. Tarkatirtha for 'Siddhanta-rahasya'. Lend against indemnity bond to the value of Rs.500.

- (b) Bhandarkar Oriental Research Institute for Vajravadarani, Nam Dharani and Aryavajravadaranahidayamantradarani (3 MSS.). Lend against indemnity bonds to the value of Rs.25, Rs.200 and Rs.25 respectively provided they have not more

than two manuscripts of the Society with them; if they have, the matter of this loan will have to be placed before the next Council Meeting.

- (c) N. N. Law for 'Samadhirajasutra' (2 MSS.). Lend against indemnity bond to the value of Rs.450.

- (d) India Office Library for 'Munipaticaritra' (3 MSS.). Lend.
No. 6. 30-5-38.

Application for the loan of 'Mathnawiyat Khwaju' manuscript from the Punjab University, Lahore. Lend against a bond for Rs.400.
No. 2. 27-6-38.

Application for an extension of the period of loan of the manuscript from Dr. B. Bhattacharya. Extend.
No. 3. 27-6-38.

Application for the loan of two manuscripts 'Farhang Nama' and 'Dasturul-afadil' by the Punjab University Library. Lend against indemnity bonds to the value of Rs.100 and Rs.50 respectively.
No. 3. 25-7-38.

Application for loan of manuscripts from:

- (a) Bhandarkar Oriental Research Institute, Poona, for 'Sabha Parvan' MS. Lend against indemnity bond to the value of Rs.200 but press for return of the other MSS. out on loan.
(b) India Office Library for two Persian MSS. (a) 'Inshai Mahrur' and (b) 'Tarikh Salatin-i-Afghana'. (a) Explain the copy is a unicum: suggest the production of photo-sta copy at their cost and consider application anew after receipt of reply. (b) Explain that copy is at present in hand of the editor and can only be lent out after publication of edition.
No. 3. 29-8-38.

Application for loan of manuscripts from:

- (a) Punjab University Library, Lahore, for 'Kulliyat-i-'Imad Faquih'. Not to be lent. May be copied.
(b) T. R. Chintamani, Madras University, for 'Bhavatrata Bhashya on the Asvalayana Srauta Sutra'. Lend against indemnity bond to the value of Rs.600.
(c) Bhandarkar Oriental Research Institute, Poona, for three different manuscripts of 'Malati Madhava'. Lend against indemnity bonds to the amounts recommended, namely No. 9245, Rs.50; No. 4804, Rs.10; No. 4805, Rs.500.
No. 2. 31-10-38.

Application for an extension of the period of loan of 'Devi Purana' by the India Office Library, London. Grant.
No. 3. 31-10-38.

Application for loan of manuscripts from:

- (a) Dr. Franklin Edgerton of Yale University for 'Mahabharata Sabhaparvam' MS. The General Secretary to verify whether there is any special objection; if not, loan to be granted, otherwise report to Council.
(b) Mrs. Roma Chaudhuri for two manuscripts of 'Ganga-vakya-vali' Nos. 2480 and 2839. Lend No. 2839 against indemnity bond to the value of Rs.200; No. 2480 not to be issued but to be held ready for study in the Society's rooms.
No. 8. 28-11-38.

Application for an extension of the period of loan of MSS. from Dr. N. N. Law. Grant extension for a further period of three months.
No. 4. 19-12-38.

MANUSCRIPT CATALOGUES—

Manuscript Catalogues. On proposal by Dr. S. L. Hora resolved that next Council be recommended to consider the general position with regard to the cataloguing work of Dr. Hidayat Hosain and Mr. Chintaharan Chakravarti.

No. 14. 31-1-38.

MONTHLY MEETINGS—

Suggestion from Dr. S. L. Hora concerning the General Meeting Tea. No action.

No. 5. 25-4-38.

Letter from Dr. S. L. Hora giving notice of a motion to be moved in the Ordinary Monthly Meeting of the Society, in June. Include in agenda notice, together with Council's order on proposal: no action.

No. 2. 30-5-38.

Materials regarding a protest from Dr. S. L. Hora and Dr. B. N. Chopra against decision of the General Meeting of R.A.S.B. on 6-6-38.

Unanimously resolved that the protest, not coming under the provisions of rule 55j, should not be published in the Proceedings of the Society.

No. 6. 25-7-38.

Letter from Dr. S. L. Hora to the President of the Society, dated 25th July, 1938.

The Acting President placed the letter before the Council for consideration.

Unanimously resolved that in the opinion of the Council the arrangement for the provision of tea was not in question and is therefore not affected by the resolution.

No. 12. 25-7-38.

Ordinary Monthly Meeting during recess months. No meetings to be convened for September and October.

No. 10. 29-8-38.

MEMBERSHIP—

Invitation to H.E. the Governor of Bengal to join the Society as a member. Approved.

No. 3. 25-4-38.

List of members in arrears with subscriptions: Apply rules.

No. 11. 30-5-38.

MEDALS—

Letter of Dr. S. P. Agharkar concerning Rao Bahadur G. N. Rangaswami Ayyengar in connection with the award of the Brühl Memorial Medal. Defer consideration pending receipt of positive recommendation by Medal Board.

No. 4. 31-1-38.

Suggestion from Dr. S. L. Hora concerning nomination by Fellows, R.A.S.B., for various medals awarded by the Society every year. No action.

No. 6.

25-4-38.

Letter of thanks from Dr. A. J. Wensinck for the award to him of the Sir William Jones Memorial Medal. Record.

No. 1.

25-4-38.

Materials in connection with the Society's Fellowship and Medal awards consequent on resolution passed in the meeting of Resident Fellows on 22-6-38. Postpone consideration and re-circulate together with the minutes of the meeting of Resident Fellows held on Wednesday the 22nd June, 1938.

No. 7.

25-7-38.

Materials in connection with the Society's Fellowship and Medal awards consequent on resolution passed in the meeting of Resident Fellows on 22-6-38. Record materials. The resolution of the meeting of Resident Fellows held on the 22nd of June and communicated to the Council was considered and put to the vote. The result: for 4 against 6. The resolution was declared lost.

No. 5.

29-8-38.

Appointment of Advisory Boards for the awards of:

(a) Joy Gobind Law Memorial Medal.

Council Order: Dr. Baini Prashad, Dr. S. L. Hora, Dr. S. C. Law, Col. R. N. Chopra, and Mr. Johan van Manen.

(b) Brühl Memorial Medal (deferred from last year).

Council Order: Dr. K. Biswas, Dr. S. P. Agharkar, Sir U. N. Brahmachari, Dr. Baini Prashad, Col. R. N. Chopra, and Mr. Johan van Manen.

No. 6.

31-10-38.

Recommendation of the Brühl Memorial Advisory Board. Accept recommendation: Sir David Prain. A letter from Dr. S. P. Agharkar on the subject not to be considered.

No. 7.

19-12-38.

Recommendation of the Joy Gobind Law Memorial Medal Advisory Board. Accept recommendation: Dr. Baini Prashad.

No. 8.

19-12-38.

MISCELLANEOUS—

Letter of thanks from Sir Archibald Home. Record.

No. 2.

31-1-38.

Letter from the Director-General of Public Instruction, Nepal, expressing a desire to get a student trained under the General Secretary in the work of preservation of manuscripts in an up-to-date method. Grant.

No. 12.

28-2-38.

Letter of thanks from the Rt. Hon. Sir John Anderson. Record.

Nos. 1 & 2.

25-4-38 & 19-12-38.

Letter from Dr. S. K. Chatterji forwarding an application from the Editor-in-Chief, *Catalogus Catalogorum*, requesting presentation of a complete set of the Descriptive Catalogues of the Sanskrit Manuscripts published by the Society. Present.

No. 12.

28-3-38.

Letter from the Theosophical Society, Indian Section, Benares, requesting presentation to their library of a set of the *Bibliotheca Indica*. Decline, but offer a concession rate of 50% discount if net value amounts to Rs.200 net or over.

No. 1.

30-5-38.

Correspondence with Dr. S. L. Hora concerning his intention to release to the press the correspondence that has passed between him and the Society.

Proposed by Dr. Baini Prashad and seconded by Dr. S. K. Chatterji.

The Council after careful consideration of the correspondence that has passed between Dr. S. L. Hora and the General Secretary regarding certain discrepancies between the printed rules and regulations and the existing practice in the Society resolved that a committee be appointed to make recommendations if necessary, regarding any rules or practices of the Society. Carried unanimously. Committee: President, General Secretary, Honorary Treasurer, Lt.-Col. N. F. Barwell, Dr. Baini Prashad, the Asst. Secretary as Assessor.

No. 8.

31-10-38.

Letter from the Honorary General Secretary, All-India Oriental Conference, forwarding proposals for the foundation of an Indian Academy of Arts and Letters. A Sub-Committee consisting of Messrs. S. K. Chatterji, M. H. Hosain, Percy Brown, J. N. Mukherjee and Johan van Manen be constituted to report to Council on the question of the foundation of an Indian Academy of Arts and Letters.

No. 5.

19-12-38.

Letter from W. Ivanow to the President and related correspondence. Mr. W. Ivanow's reply to the Society's letter also to be recorded.

No. 9.

19-12-38.

NATIONAL INSTITUTE OF SCIENCES OF INDIA—

Representation of the Society on the Council of the National Institute of Sciences of India for 1938. The following to be the Society's representatives: Sir U. N. Brahmachari, Vice-President, and Sir Bryce Burt as a member of Council.

No. 3.

31-1-38.

Letter from Sir B. C. Burt accepting his nomination to represent the Society on the Council of the National Institute of Sciences of India. Record.

No. 10.

28-2-38.

Representation of the Society on the Council of the National Institute of Sciences of India for 1939. Sir U. N. Brahmachari and Sir Bryce Burt to continue as Society's representatives, the former as Vice-President and the latter as member of Council.

No. 2.

19-12-38.

OBITUARY—

T. H. D. La Touche (an Ordinary Member, 1889 and Fellow, 1910); Sir T. Wolsely Haig (An Honorary Fellow, 1927). Announce. Dr. A. M. Heron and Dr. M. H. Hosain be requested to write obituary notices of T. H. D. La Touche and Sir T. W. Haig respectively.

No. 10(c).

30-5-38.

Report death of Mr. N. G. Majumdar. Record with regret, members standing. Dr. Baini Prashad was requested to write an obituary notice.

No. 1.

28-11-38.

PATRON—

Letter from the Private Secretary to H.E. the Governor of Bengal accepting the joint Patronage of the Society. Record with thanks to His Excellency.

No. 9.

28-2-38.

PRESENTATIONS—

Recommendation Library Committee No. 3 of 28-11-38. Presentation by Dr. Baini Prashad as Director of Zoological Survey of India of 57 volumes of books to the Society's library. Accept with thanks; transfer the items specified in Dr. Heron's note to the Geological Survey of India. Accepted by Council.

No. 11.

28-11-38.

PROVIDENT FUND—

Recommendation Finance Committee No. 2(4) of 27-1-38. Application from B. B. Mukherjee for loan of Rs.110 from the Provident Fund. Grant; to be repaid by monthly instalments of Rs.10; interest at 3% per annum. Accepted by Council.

No. 8.

31-1-38.

Recommendation Finance Committee No. 3. of 24-2-38. Application for a loan of Rs.500 from the Provident Fund by Shah Moinuddin Ahmed, Maulavi. Grant; to bear interest at 3% per annum. Council order: Loan to be granted to an amount (Rs.627) to cover all outstandings in loan and interest (Rs.127), the latter to be repaid immediately in full, and the whole new loan to the amount of Rs.627 to be repaid by monthly instalments of Rs.15, the unpaid portion of the loan to bear interest at the rate of 3% per annum.

No. 5.

28-2-38.

Recommendation Finance Committee No. 3 of 24-3-38. Applications from Duftries, Abdul Razzak and Nawab Jan to be allowed to contribute to the Provident Fund of the Society. Grant. Accepted by Council.

No. 8.

28-3-38.

PUBLICATIONS—

Recommendations Special Finance Committee of 27-1-38. The Committee considered the budget proposals as put up for the year 1938 and in this connection made the following recommendation:—

3. The Committee found that very little expenditure has been incurred during the year in the purchase of books, as also on the publication of Journal and Memoirs. The Committee considers that these very vital activities of the Society should be specially stimulated and accordingly recommends that special grants out of the working balance accrued as excess of income over expenditure during 1937 be provided next year for Library and for bringing the arrears of publication of the Society up-to-date. Accepted by Council.

No. 7.

31-1-38.

Letter from Mr. E. O. Shebbeare requesting permission to be given to the Curator of Darjeeling Natural History Museum to use the type-script and all blocks used in illustrating the paper on 'The Fishes of Northern Bengal'. Express regret that the request cannot be granted in the form in which it is made and suggest the supply of a required number of reprints of the article on publication of the paper in the Journal.

No. 11.

28-2-38.

Paper by C. C. Das-Gupta on 'Bibliography of ancient Indian terracotta Figurines' re-circulated to the Council enquiring whether further opinion from Mr. N. G. Majumdar would be necessary. Journal.

No. 2.

28-3-38.

Notes by Mr. P. C. Sen-Gupta and Dr. Meghnad Saha concerning a paper by the former on 'Some astronomical references from the Mahabharata and their significance'. Record.

No. 3.

28-3-38.

Letter from Dr. S. L. Hora regarding the publications of the Society. Lt.-Col. N. Barwell placed before the Council a letter received by him as Acting President from Dr. Hora.

Resolved that the letter be duplicated in the office and that a copy be sent to each member of the Council. The matter to be discussed in next Council meeting.

No. 9.

27-6-38.

Letter from Dr. S. L. Hora to the Acting President concerning the publications of the Society.

The Chairman requested the General Secretary to read a memorandum drawn up by him on the subject. Resolved: that Colonel Barwell be requested kindly to acknowledge receipt of the letter and to state that the matters brought forward therein are being considered by a special re-organization committee.

No. 5.

25-7-38.

RE-ORGANIZATION (OFFICE)—

Consideration of a circular letter to the Council. No action. Further proposed by Mr. W. D. West and seconded by Dr. J. N. Mukherjee. Resolved: That a special Committee consisting of Sir John Lort-Williams (Chairman), Sir U. N. Brahmachari, Prof. J. N. Mukherjee, Dr. B. Prashad and Mr. W. D. West (Secretary) be appointed to consider and report to the Council on ways and means of re-organizing the staff, with the recommendation that an Assistant Secretary be appointed if a suitable salary can be provided, and in such case to recommend his qualifications and define his duties.

Special Council.

28-3-38.

Letter from Dr. B. S. Guha suggesting postponement of consideration of the report of the Sub-Committee. No action.

No. 3.

30-5-38.

Report of the Special Sub-Committee of the Council on the re-organization of the work of the Society. Adopt. Unanimously resolved that a vote of thanks to the Sub-Committee in appreciation of the work done by them be recorded.

Further resolved that the Special Sub-Committee be authorized to negotiate with the Indian Science Congress Association and the National Institute of Sciences of India for the purpose of implementing their recommendations; also resolved that the General Secretary be co-opted to the Special Sub-Committee when selecting and recommending to the Council any candidate for appointment as temporary Assistant Secretary.

No. 4.

30-5-38.

Consideration of the final report of the Special Sub-Committee appointed on 28th March, 1938 (Appointment Assistant Secretary).

Proposed by Sir John Lort-Williams and seconded by Dr. Bains Prasad, that the report be adopted.

After discussion put to the vote and unanimously agreed to.

Further resolved that the General Secretary be directed to intimate verbally to the chosen candidate before issuing a formal letter of appointment to him that the Council for a mutual protection would be prepared to insert a clause providing for the termination of the appointment on either side at three months' notice.

Special Council.

3-8-38.

Letter from the General Secretary, Indian Science Congress Association, forwarding the minutes of the Executive Committee, I.S.C.A., for consideration of the Council. Unanimously resolved that the suggested separation be accepted. The question of the provision of a room for the Institution to be referred to the Special Committee on re-organization.

No. 5.

28-11-38.

REPRESENTATION—

Representation of the Society on the Council of the National Institute of Sciences of India for 1938. The following to be the Society's representatives: Sir U. N. Brahmachari, Vice-President, and Sir Bryce Burt as a member of Council.

No. 3.

31-1-38.

Enquiry from Dr. U. N. Ghosal whether the Society would wish him to represent it at the next International Congress of Orientalists to be held in Brussels. Invite Dr. Ghosal to represent the Society.

No. 4.

25-4-38.

Representation of the Society on the Board of Trustees of the Indian Museum. The Society's representative to be Sir U. N. Brahmachari.

No. 4.

28-11-38.

Representation of the Society on the Council of the National Institute of Sciences of India for 1939. Sir U. N. Brahmachari and Sir Bryce Burt to continue as Society's representatives, the former as Vice-President and the latter as member of Council.

No. 2.

19-12-38.

RULES AND REGULATIONS—

Correspondence with Dr. S. L. Hora concerning (1) the staff hours of the Society's office, (2) his intention to release to the press the correspondence that has passed between him and the Society, and (3) the interpretation of Rule 60a, Council meeting during recess months.

Proposed by Dr. Baini Prashad and seconded by Dr. S. K. Chatterji.

The Council after careful consideration of the correspondence that has passed between Dr. S. L. Hora and the General Secretary regarding certain discrepancies between the printed rules and regulations and the existing practice in the Society resolved that a Committee be appointed to make recommendations if necessary, regarding any rules or practices of the Society. Carried unanimously. Committee: President, General Secretary, Hony. Treasurer Lt.-Col. N. F. Barwell, Dr. Baini Prashad, the Asst. Secretary as Assessor.

Nos. 7, 8 & 9.

31-10-38.

Confirmation minutes of the Council meeting of 31-10-38. Order: Confirm after addition of Dr. Baini Prashad's name as a Member of the Committee for rules and practices.

Council.

28-11-38.

Letter from Dr. S. L. Hora concerning the Sub-Committee on Rules together with a reply thereto. Record.

No. 5.

28-11-38.

Recommendation of the Joy Gobind Law Memorial Medal Advisory Board suggesting certain amendment to the award rules. The recommendation being put to the vote, was rejected with 8 to 7 votes. Further resolved: that a Sub-Committee be constituted consisting of Messrs. J. N. Mukherjee, Baini Prashad, A. M. Heron, N. Barwell, K. C. Mahindra, the ex-officio members as well as ex-officio members of the various Medal Advisory Boards to consider the desirability of the enlargement of the various medal award Boards and to report to Council.

No. 6.

19-12-38.

STAFF—

Recommendation Special Finance Committee of 27-1-38.

2. The Committee recommends that the increment to the staff should be given as under:—

		Grade.	Present pay.	Increment.
		Rs.	Rs.	Rs.
1.	P. O. Matthai	.. 150—10—250	200	10
2.	B. L. Dutt	.. 100— 5—175	170	5
3.	R. K. Iyer	.. 100— 5—150	145	5
4.	S. K. Ray*			
	(Personal grd.)	.. 75— 5—155	95+30	5
5.	B. M. Chakravarti	.. 50— 3— 80	68	3
6.	A. N. Bhattacharya	.. 75— 5—125	95	5
7.	A. Michael†	.. 50— 5— 75	55	5
8.	Nathan‡	.. 40— 2— 60	40	2
9.	Norman‡	.. 40— 2— 60	40	2

* Babu S. K. Ray has for a number of years been getting a personal allowance of Rs.30 per month for staying late on every working day. This allowance is now consolidated into pay and a personal grade is given to him.

† Mr. Michael now acts as a stenographer and, therefore, he is put in a higher grade.

‡ Mr. Nathan and Mr. Norman were employed in a temporary capacity. They are now confirmed in the grade of Rs.40—2—60 as Despatcher and File Clerk respectively and given an increment from the 1st of January.

In the case of the members of the staff who are drawing the maximum of their respective grade, the Committee considered that it was not within the jurisdiction of the Committee to recommend higher grades unless the Council specially empowers it to revise the grades of the staff. Accepted by Council.

No. 7.

31-1-38.

Recommendation Finance Committee No. 2(2) of 27-1-38. Payment of an advance of Rs.40 by the Society to Ram Dheyan Singh, Chaprasi. Approve. Accepted by Council.

No. 8.

31-1-38.

Recommendation Finance Committee No. 2(3) of 27-1-38. Increment of salaries to staff. Approve as recommended by the Special Finance Committee. Accepted by Council.

No. 8.

31-1-38.

Recommendation Finance Committee No. 2(4) of 27-1-38. Application from B. B. Mukherjee for a loan of Rs.110 from the Provident Fund. Grant; to be repaid by monthly instalments of Rs.10 ; interest at 3% per annum. Accepted by Council.

No. 8.

31-1-38.

Application for a loan of Rs.500 from the Provident Fund by Shah Moinuddin Ahmed, Maulavi. Grant ; to bear interest at 3% per annum. Council order: Loan to be granted to an amount (Rs.627) to cover all outstandings in loan and interest (Rs.127), the latter to be repaid immediately in full, and the whole new loan to the amount of Rs.627 to be repaid by monthly instalments of Rs.15, the unpaid portion of the loan to bear interest at the rate of 3% per annum.

No. 5.

28-2-38.

Consideration of a circular letter to the Council. No action. Further proposed by Mr. W. D. West and seconded by Dr. J. N. Mukherjee. Resolved: That a special committee consisting of Sir John Lort-Williams (Chairman), Sir U. N. Brahmachari, Prof. J. N. Mukherjee, Dr. B. Prashad and Mr. W. D. West (Secretary) be appointed to consider and report to the Council on ways and means of re-organizing the staff, with the recommendation that an Assistant Secretary be appointed if a suitable salary can be provided, and in such case to recommend his qualifications and define his duties.

Special Council.

28-3-38.

Recommendation Finance Committee No. 3 of 24-3-38. Applications from Duftries, Abdul Razzack and Nawab Jan to be allowed to contribute to the Provident Fund of the Society. Grant. Accepted by Council.

No. 8.

28-3-38.

Recommendation Finance Committee No. 3 of 21-4-38. Letter from R. K. Iyer (Cashier), dated 25-3-38, tendering his resignation as cashier of the Society. Accept resignation; B. M. Chakravarty to be confirmed in the vacant post on the grade Rs.100—5—150. Question of security deposit to be advised upon by lawyer, and if security under the rules of Provident Fund be found insufficient, independent security to be furnished. Accepted by Council.

No. 9.

25-4-38.

Recommendation Finance Committee No. 4 of 21-4-38. Further letter from the late cashier requesting settlement of the Provident Fund claims. The Honorary Treasurer to be requested to ascertain the amount standing to the credit of the resigning cashier and to be authorized to repay to him the entire balance standing to his credit. Accepted by Council.

No. 9.

25-4-38.

Despatch clerk's disappearance. The General Secretary to fill up the vacancy.

No. 8.

27-6-38.

Consideration of the final report of the Special Sub-Committee appointed on 28th March, 1938 (Appointment Assistant Secretary).

Proposed by Sir John Lort-Williams and seconded by Dr. Bains Prashad, that the report be adopted.

After discussion put to the vote and unanimously agreed to.

Further resolved that the General Secretary be directed to intimate verbally to the chosen candidate before issuing a formal letter of appointment to him that the Council for a mutual protection would be prepared to insert a clause providing for the termination of the appointment on either side at three months' notice.

Special Council.

3-8-38.

Correspondence with Dr. S. L. Hora concerning the staff hours of the Society's office.

Proposed by Dr. Bains Prashad and seconded by Dr. S. K. Chatterji.

The Council after careful consideration of the correspondence that has passed between Dr. S. L. Hora and the General Secretary regarding certain discrepancies between the printed rules and regulations and the existing practice in the Society resolved that a Committee be appointed to make recommendations, if necessary, regarding any rules or practices of the Society. Carried unanimously. Committee: The President, the General Secretary, the Hony. Treasurer., Lt.-Col. N. F. Barwell, the Asst. Secretary as Assessor.

No. 7.

31-10-38.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Royal Asiatic Society of Bengal,
On the 31st December, 1938.**

PATRONS OF THE ROYAL ASIATIC SOCIETY OF BENGAL.

1936 ..	.. H.E. the Most Honourable Lord Victor Alexander John Hope, K.T., P.C., G.M.S.I., G.M.I.E., G.C.I.E., D.L., T.D., the Marquess of Linlithgow, Viceroy and Governor-General of India.
1938 ..	.. H.E. the Honourable Lord Cecil Marcus Knatchbull-Hugessen, G.C.I.E., M.C., Baron Brabourne, Governor of Bengal.
<hr/>	
1910-1916	.. Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O., I.S.O.
1917-1922	.. Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1922-1927	.. Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	.. Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	.. Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.
1931-1936	.. The Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E.
1932-1938	.. The Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1938.

Elections Annual Meeting.

President.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Vice-Presidents.

A. M. Heron, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B.
Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.
Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S., F.R.A.S.B.
The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

Secretaries and Treasurer.

General Secretary:—Johan van Manen, Esq., C.I.E., F.R.A.S.B.
Treasurer:—Percy Brown, Esq., A.R.C.A., F.R.A.S.B.
Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit., F.R.A.S.B.
Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi M. Hidayat
Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.
Natural History Secretaries { Biology:—Bain Prasad, Esq., D.Sc., F.Z.S., F.R.S.E.,
F.R.A.S.B.
Physical Science:—J. N. Mukherjee, Esq., D.Sc.,
F.C.S., F.R.A.S.B.
Anthropological Secretary:—B. S. Guha, Esq., M.A., Ph.D.
Medical Secretary:—Rai Sir Upendra Nath Brahmachari Bahadur, Kt.,
M.A., M.D., Ph.D., F.R.A.S.B.
Library Secretary: M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

N. G. Majumdar, Esq., M.A., F.R.A.S.B.
K. C. Mahindra, Esq., B.A.
W. D. West, Esq., M.A.
Sir George Campbell, Kt.
Capt. C. L. Pasricha, M.A., M.B., B.Ch., M.R.C.S., I.M.S.
Kalipada Biswas, Esq., M.A., D.Sc.

APPOINTMENTS, TRANSFERS, AND OTHER CHANGES DURING THE YEAR.

Mr. Johan van Manen, Acting Honorary Treasurer, *vice* Mr. Percy Brown, absent, from 3-9-38 to 15-9-38.
Mr. Percy Brown, Acting General Secretary, *vice* Mr. Johan van Manen, absent, from 29-9-38 to 24-10-38.
Dr. A. M. Heron, absent from 15-4-38 to 15-7-38.
Sir David Ezra, absent from 25-4-38 to 10-11-38.
Col. R. N. Chopra, absent from 10-4-38 to 15-6-38 and 6-10-38 to 30-10-38.
Sir George Campbell, absent from 15-4-38 to 30-6-38.
Mr. N. G. Majumdar, absent from 1-5-38 to 15-6-38; assassinated on 11-11-38.
Major C. L. Pasricha, absent from 1-5-38 to 15-7-38.
Dr. B. S. Guha, absent from 15-4-38 to 15-6-38 and from 14-10-38 to 15-11-38.
Mr. W. D. West, absent from 15-7-38 to the end of the year.
Sir John Lort-Williams, absent from 4-8-38 to 5-11-38.
Col. N. Barwell, absent from 24-8-38 to 9-11-38.
Dr. S. K. Chatterji, absent from 25-7-38 to 15-10-38.
Dr. K. P. Biswas, absent from 15-9-38 to 25-11-38.
Dr. J. N. Mukherjee, absent from 15-10-38 to 12-11-38.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL ELECTED FOR THE YEAR 1939.

President.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Vice-Presidents.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.

Bt.-Col. R. N. Chopra, C.I.E., M.A., M.B., I.M.S.,
F.R.A.S.B.

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

* Sir Bijay Chand Mahtab, G.C.I.E., K.C.S.I., I.O.M.,
Maharajadhiraja Bahadur of Burdwan.

Secretaries and Treasurer.

General Secretary:—Johan van Manen, Esq., C.I.E.,
F.R.A.S.B.

Treasurer:—Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit.,
F.R.A.S.B.

Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi
M. Hidayat Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.

Natural History Secretaries { Biology:—Baini Prashad, Esq., D.Sc.,
F.Z.S., F.R.S.E., F.R.A.S.B.
Physical Science:—J. N. Mukherjee, Esq.,
D.Sc., F.C.S., F.R.A.S.B.

Anthropological Secretary:—B. S. Guha, Esq., M.A., Ph.D.

Medical Secretary:—Rai Sir Upendra Nath Brahmachari
Bahadur, Kt., M.A., M.D., Ph.D., F.R.A.S.B.

Library Secretary:—M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

Major C. L. Pasricha, M.A., M.B., B.Ch., M.R.C.S., I.M.S.

Kalpada Biswas, Esq., M.A., D.Sc.

C. S. Fox, Esq., D.Sc., M.I.Min.E., F.G.S.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt.,
Barrister-at-Law.

Satya Churn Law, Esq., M.A., B.L., Ph.D., F.Z.S., M.B.O.U.

Megh Nad Saha, Esq., D.Sc., F.R.S., F.R.A.S.B.

ORDINARY MEMBERS.

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R=Resident. N=Non-Resident. F=Foreign. A=Absent. L=Life.

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An Asterisk is prefixed to names of Ordinary Fellows of the Society.

Date of Election		
5-4-22	R	Abdul Ali , ABUL FAIZ MUHAMMAD, M.A., M.R.A.S., F.R.S.L., F.R.G.S., F.R.H.S. 3, Nawab Abdur Rahman Street, Calcutta.
7-3-27	N	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZIL (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Rajshahi College. Rajshahi.</i>
2-11-25	N	Acharya , PARAMANANDA, B.SC., <i>State Archaeologist, Mayurbhanj State, Baripada.</i>
2-3-21	R	Agharkar , SHANKAR PURUSHOTTAM, M.A., PH.D., F.L.S., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University. 35, Ballygunge Circular Road, Calcutta.</i>
3-2-36	N	Ahmad , ALFAZUDDIN, KJAN BAHADUR, <i>Late Offg. Assistant Director of Public Instruction for Muhammedun Education, Bengal. Dhalhora, Tamluk, Midnapur.</i>
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan. 2, Andرابي, Kabul, Afghanistan.</i>
4-1-37	R	Ahmad , SHAMSUDDIN, <i>Archaeological Section, Indian Museum. 27, Chowringhee, Calcutta.</i>
6-6-17	N	Aiyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A., <i>Late Director of Public Instruction, Travancore. Vasumali Vilas, Rangaswami Road, Mylapore, Madras.</i>
6-12-26	N	*Aiyangar , S. KRISHNASWAMI, M.A., PH.D., M.R.A.S., F.R.HIST.S., F.R.A.S.B., <i>Rajasevasakta, Professor, University of Madras. 'Sripadam'. 143, Brodies Road, Mylapore, Madras, S.</i>
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti. Hoti, N.-W.F.P.</i>
4-4-38	R	Anderson , J. 15, Park Street, Calcutta.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. (of The Royal Empire Society, Northumberland Avenue, London, W.C.)
5-4-37	R	Asari , J. R., <i>Retd. Asstt. Controller of Printing, Stationery and Stamps. Suite 10, 23, Central Avenue, Calcutta.</i>
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant. Truroves, Ingatstone, Essex, England.</i>
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.), F.G.S., <i>Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.</i>
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd. Norton Building, Lalbazar, Calcutta.</i>
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., I.E.S., <i>Professor of Zoology. Royal Institute of Science, Mayo Road, Fort, Bombay.</i>
3-3-14	L	*Bacot , J., F.R.A.S.B. Boulevard Saint-Antoine, 61, Versailles Seine-et-Oise, France.

Date of Election		
7-9-36	R	Bagchi, K. N., RAI BAHADUR, B.SC., M.B. (CAL.), F.I.C. (LOND.), D.T.M. (CAL. & L'POOL), <i>Chemical Examiner to the Government of Bengal.</i> Medical College, Calcutta.
1-11-26	R	Bagchi, PROBODH CHANDRA, M.A., DR.-ES-LETTERS (PARIS), <i>Member of the A.S. of Paris; Lecturer, Calcutta University.</i> 9, Rustumjee Street, Ballygunge, Calcutta.
1-3-26	R	Bagnall, JOHN FREDERICK, B.SC., A.M.I.MECH.E., A.M.I.E.E., A.M.INST.C.E., <i>Consulting Engineer, Messrs. Macneill & Co.</i> 2, Fairlie Place, Calcutta.
2-4-24	N	*Bahl, K. N., D.SC., D.PHIL., F.R.A.S.B., <i>Professor of Zoology, Lucknow University.</i> Badshahagh, Lucknow.
7-3-27	N	Bake, A. A., <i>Doctorandus Or. Lit.</i> c/o Netherland Indies Commercial Bank, 1, Royal Exchange Place East, Calcutta.
1-8-38	R	Banerjee, J. N., M.A., <i>Lecturer, Calcutta University.</i> 28, Manoharpukur Road, Calcutta.
6-2-18	N	Banerjee, NARENDRA NATH, M.I.P.O.E.E., A.M.I.E., <i>Post-Master General, B. & O. Patna.</i>
5-3-24	R	Banerjee, P. N., M.A. (CANTAB.), A.M.I.E., F.C.U., <i>Civil Engineer.</i> 12, Mission Row, Calcutta.
7-12-36	R	Banerjee, S. M., I.C.S. 18/1, Ballygunge Circular Road, Calcutta.
3-8-31	N	Barua, KANAK LAL, RAI BAHADUR, B.L., F.R.S.E., <i>President, Kamarupa Anusundhan Samiti, Late Minister to the Government of Assam.</i> Rowaville, Nangthymai, Shillong, Assam.
3-12-23	R	Barwell, N. F., LT.-COL. (RETD.), M.C., M.A., <i>Bar-at-Law.</i> 6, Middleton Street, Calcutta (and) Aylmerton House, Aylmerton, Norfolk, England.
7-12-36	R	Basu, INDUBHUSAN, M.D. (CAL.), <i>Medical Practitioner, Associate Professor of Medicine and Visiting Physician, Carmichael Medical College.</i> 19, Vivekananda Road, Calcutta.
3-12-24	R	Basu, JATINDRA NATH, M.A., M.L.C., <i>Solicitor.</i> 14, Baloram Ghose Street, Calcutta.
1-3-26	R	Basu, NARENDRA KUMAR, M.L.C., <i>Advocate, High Court.</i> 12, Ashu Biswas Road, Bhawanipore, Calcutta.
2-1-28	R	Basu, NARENDRA MOHAN, M.Sc., <i>Professor of Physiology.</i> 63, Hindusthan Park, Ballygunge, Calcutta.
30-9-35	N	Basu, SATYENDRA KUMAR, M.Sc., <i>Extra Assistant Conservator of Forests.</i> Clover Cot, Darjeeling.
7-7-09	N	Bazaz, RANGNATH KHEMRAJ, <i>Proprietor, Shri Venkateshwar Press.</i> 7th Khetwadi, Bombay No. 4.
7-5-34	R	Bent, WILLIAM ANTONY, <i>Assistant, Messrs. George Henderson & Co., Ltd.</i> 101/1, Clive Street, Calcutta.
4-3-25	R	Benthall, SIR EDWARD C., KT., <i>Merchant.</i> 37, Ballygunge Park, Calcutta.
7-4-09	L	*Bentley, CHARLES A., C.I.E., M.B., D.P.H., D.T.M. & H., F.A.S.B., <i>Professor of Hygiene.</i> University of Egypt, Cairo.
6-1-36	N	Berkeley-Hill, OWEN, A.R., M.A., M.D., B.OH. (OXON), M.B.C.S. (ENGLAND), D.T.M. (LOND.), LT.-COL., I.M.S. (RETD.), <i>Station View, Ranchi.</i>
4-6-28	N	Bhadra, SATYENDRA NATH, RAI BAHADUR, M.A., <i>Principal, Jagannath Intermediate College.</i> Nayabazar, Dacca.
1-8-17	R	*Bhandarkar, DEVADATTA RAMKRISHNA, M.A., PH.D., F.R.A.S.B. 2/1, Lovelock Street, Ballygunge, Calcutta.

Date of Election.		
5-4-26	N	Bhatia , M. L., M.Sc., <i>Lecturer in Zoology</i> . Lucknow University, Lucknow.
1-2-22	N	Bhattacharya , VIDHUSHEKHARA, PANDIT, <i>Principal</i> , <i>Vidyabhabana</i> . Visvabharati, Santiniketan, Birbhum.
7-7-24	L	Bhattacharyya , BINOYTOSH, M.A., PH.D., <i>Rajaratna</i> , <i>General Editor, Gokwad's Oriental Series, and Librarian</i> , <i>Oriental Collections</i> , Baroda State. Baroda.
6-9-37	N	Bhattacharya , N. C., <i>Vice-Chairman</i> , <i>Birnagar Municipality</i> . Birnagar, Nadia.
4-6-28	N	Bhattacharya , NALINI KANTA, M.A., PH.D., <i>Curator</i> . Dacca Museum. Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., <i>Advocate</i> , <i>Calcutta High Court</i> . 24A, Ray Bagan Street, Calcutta.
5-2-34	A	Bhuyan , SURYYA KUMAR, RAI BAHADUR, M.A., B.L., A.E.S., <i>Honorary Provincial Director of Historical and Antiquarian Studies</i> , <i>Assam</i> , <i>Professor</i> , <i>Cotton College</i> . Gauhati, Assam.
5-3-28	R	Biswas , THE HON'BLE MR. JUSTICE CHARU CHANDRA, C.L.F., M.A., B.L., <i>Judge</i> , <i>High Court</i> . 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	L	Biswas , KALIPADA, M.A., D.Sc. (EDIN.), F.R.S.E., <i>Superintendent</i> , <i>Royal Botanic Garden</i> . Botanic Garden P.O., Calcutta.
3-1-27	N	Bivar , HUGH GODFREY STUART, I.C.S., <i>District and Sessions Judge</i> . Faridpur.
1-2-93	L	*Bodding , REV. P. O. M.A. (CHRIST.), F.R.A.S.B. Gullerassveien, 27, Vettakollen, Oslo, Norway.
4-11-35	N	Bor , N. L., M.A., D.Sc., I.E.S., <i>Forest Botanist</i> , <i>Forest Research Institute</i> . New Forest, Dehra Dun.
6-7-25	R	Bose , MANMATHA MOHAN, M.A., <i>Professor Emeritus</i> , <i>Scottish Church College</i> . 19, Gokul Mitra Lane, Hatkhola, Calcutta.
7-12-36	N	Bose , AMBUJ NATH, M.B.E., M.D. (LAUSANNE), F.R.C.P. (EDIN. & LOND.), LT.-COL., I.M.S. <i>Medical College</i> , Patna.
2-3-31	N	Bose , SUDHANSU KUMAR, B.Sc. (CAL.), A.R.S.M., B.Sc. (MINING) (LONDON), <i>Professor of Mining and Surveying</i> , <i>Indian School of Mines</i> , Dhanbad.
2-11-36	N	Bothra , SUBHKARAN, <i>Landholder and Student</i> , <i>Gurukul Chambers</i> . Mambadevi Road, Bombay.
4-5-31	A	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., <i>Director of Public Instruction</i> , <i>Bengal</i> . 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., <i>Adviser in Languages and Secretary to the Board of Examiners</i> , <i>Army Headquarters</i> , Simla.
2-5-38	R	Brabourne , HIS EXCELLENCY THE RIGHT HON'BLE LORD, G.C.S.I., G.C.I.E., M.C., <i>Governor of Bengal</i> . Government House, Calcutta.
3-12-34	R	Brahmachari , PHANINDRA NATH, M.Sc., M.B. 19, <i>Loudon Street</i> , Calcutta.
1-1-08	L	*Brahmachari , SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.R.A.S.H. 19, <i>Loudon Street</i> , Calcutta.
7-11-27	N	Brahmachary , SARAT CHANDRA, RAI BAHADUR, M.A., B.T. <i>Kasba Road</i> , Ballygunge, P.O. Dhakuria, 24-Pergs.
6-1-36	R	Brocke , A. G., D.Sc. (DOCTOR PHILOSOPHÆ NATURALIS) (JENA), <i>Branch Manager</i> , <i>Pharmaceutical Department</i> , 'Bayer'. 52/4/1, Ballygunge Circular Road, Calcutta.

Date of Election.		
3-7-07	L	*Brown, JOHN COGGIN, O.B.E., D.S.C., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.R.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
6-10-09	R	*Brown, PERCY, A.R.C.A., F.R.A.S.B., Curator, Victoria Memorial. Calcutta.
8-1-96	F	*Burn, SIR RICHARD, KT., C.S.I., F.R.A.S.B. 9, Staverton Road, Oxford, England.
3-12-34	F	Burt, SIR BRYCE CHUDLEIGH, KT., C.I.E., M.B.E., B.S.C., I.A.S., c/o The Westminster Bank, Bishopston, Bristol, England.
2-4-13	A	Calder, CHARLES CUMMING, B.S.C., F.L.S., Superintendent, Royal Botanic Garden. Sibpur, Howrah.
4-11-29	F	Campbell, SIR GEORGE R., KT., Westcroft, Pyrford, Surrey, England.
4-7-38	R	Carstairs, ANDREW McLAREN, M.A., Bengal Chamber of Commerce. Royal Exchange Buildings, 2, Clive Street, Calcutta.
3-2-36	F	Catto, OF CAIENCATTO, THE RIGHT HON'BLE LORD, BART. 'Woodlands', Clamp Hill, Stanmore, Middlesex, England.
1-9-20	R	Chakladar, HARAN CHANDRA, M.A. 28/4, Srimohan Lane, Kalighat, Calcutta.
7-3-32	R	Chakraborty, KHIRODE BEHARI, Engineer and Manufacturer. 7, Hindusthan Park, P.O. Ballygunge, Calcutta.
4-7-27	R	Chakravarti, CHINTAHARAN, M.A., Lecturer, Bethune College. 28/3, Sahanagar Road, Kalighat, Calcutta.
3-2-30	N	Chakravarti, M. N., M.Sc., A.T.S. 'Gitanjali'. 37, Mayo Road, Lahore.
7-2-38	R	Chakravarti, P. K., M.A., B.L., Advocate, High Court. 105, Harish Mukherjee Road, Calcutta.
5-6-33	N	Chakravarti, SUSIL KUMAR, M.A., Zemindar. Cooch Behar (Cooch Behar State).
3-1-27	N	Chakravarty, NIRANJANPRASAD, M.A., PH.D. (CANTAB.), Government Epigraphist. Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
6-1-30	A	Chakraverti, SHRISH CHANDRA, B.L., Attorney-at-Law, High Court, Calcutta. 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda, RAMAPRASAD, RAI BAHADUR, B.A., F.R.A.S.B. P. 463, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman, JOHN ALEXANDER, 32, Lavington Road, West Baling, London, W.3.
7-5-28	R	Chatterjee, SIR NALINI RANJAN, KT., M.A., B.L., Retired Judge and sometime acting Chief Justice, Calcutta. 91A, Harish Mukherjee Road, Bhawanipore, Calcutta.
7-2-27	N	Chatterjee, ASHOKE, B.A. (CAL.), B.A. (CANTAB.), Labour Welfare Office. Burnpur, Via Asansol.
27-10-15	F	Chatterjee, SIR ATUL CHANDRA, K.C.I.E., K.C.S.I., Late High Commissioner for India. Withdean, Cavendish Road, Weybridge, Surrey, England.
2-3-36	R	Chatterjee, MANOMOHAN, B.S.C. (CAL.), PH.D. (LOND.), A.R.C.S., D.I.C., Professor of Geology, Presidency College. 170/2, Lower Circular Road, Calcutta.
1-10-20	R	Chatterjee, NIRMAL CHANDRA. 47/1, Theatre Road, Bhawanipore, Calcutta.
4-7-27	R	Chatterjee, PATITPABON, M.A., B.L., Vakil, High Court. 84, Harrison Road, Calcutta.

Date of Election		
3-12-34	R	Chatterjee , SISIR CHANDRA, M.D. (EDIN.), M.R.C.P. (EDIN.), D.P.H. (EDIN.), <i>Chief Medical Officer, E. B. Ry. 2, Belvedere Park, Alipur, Calcutta.</i>
5-1-31	R	Chatterji , DURGACHARAN, M.A., <i>Lecturer in Sanskrit, Bethune College. P. 317, Jatin Das Road, Kalighat, Calcutta.</i>
4-6-34	N	Chatterji , BIJAN RAJ, PH.D. (LONDON), D.LITT. (PUNJAB), <i>Professor of History, Meerut College. Meerut.</i>
7-5-28	R	Chatterji , KEDAR NATH, B.SC. (LONDON), A.E.C.S. (LONDON). 43, Wellesley Street, Calcutta.
7-6-11	R	Chatterji , KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 6/1, Wood Street, Calcutta.
7-2-38	N	Chatterji , M. D., <i>Central Telegraph Office. Agra.</i>
6-8-24	R	*Chatterji , SUNITI KUMAR, M.A. (CAL.), D.LITT. (LONDON), F.R.A.S.B. <i>Khaira Professor of Linguistics, Calcutta University. 'Sudharma', 16, Hindusthan Park, (off Rashbihari Avenue East End), Ballygunge, Calcutta.</i>
2-3-36	R	Chatterji , MRS. TUHINIKA, M.A., KAVYATIRTHA, <i>Research Scholar, Examiner, Calcutta University. 5, Wood Street, Calcutta.</i>
5-11-24	R	Chattopadhyay , K. P., M.SC., <i>Professor, Calcutta University. 55/1, Old Ballygunge 1st Lane, Calcutta.</i>
2-11-25	N	Chattopadhyaya , KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit. Allahabad University, Allahabad.</i>
1-4-14	R	Chaudhuri , GOPAL DAS. 32, Beadon Row, Calcutta.
4-4-38	R	Chaudhuri , MRS. ROMA, M.A., PH.D. (LOND.). 3, Federation Street, Calcutta.
4-11-35	R	Chaudhuri , S. N. 52, Ballygunge Circular Road, Calcutta.
5-12-23	R	Chopra , B. N., D.SC., F.L.S., <i>Assistant Superintendent, Zoological Survey of India. Indian Museum, Calcutta.</i>
1-2-22	R	*Chopra , R. N., C.I.E., M.A., M.D. (CANTAB.), BREVET-COL., I.M.S., F.R.A.S.B., <i>Professor of Pharmacology. School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.</i>
5-12-27	L	Chowdhury , SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road Calcutta.
2-4-28	R	Chowdhury , RAI JATINDRANATH <i>Zemindar. 36, Russa Road, Tollygunge, Calcutta.</i>
3-7-07	L	*Christie , WILLIAM ALEXANDER, KYNOCH, B.SC., PH.D., M.INST M.M., F.R.A.S.B. <i>Secretariat, Principal Supply Officers' Committee (India), Defence Department, Simla.</i>
1-9-15	R	Cleghorn , MAUDE LINA WEST (MISS), F.L.S., F.E.S. 43, Moulahat Road, Calcutta.
2-2-31	R	Clough , JOHN, <i>Barrister-at-Law. 17, Store Road, Ballygunge, Calcutta.</i>
5-5-30	F	Cooper , G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
6-11-33	R	Coulson , ARTHUR LENNOX, D.SC. (MELB.), D.I.C., F.G.S. <i>Geological Survey of India, 27, Chowringhee, Calcutta.</i>
4-11-29	L	*Cotter , GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.R.A.S.B. 'Fallowfield', Manor Road, Penn., Bucks., England.
25-8-87	R	Criper , WILLIAM RISDON, F.C.S., F.I.C., A.R.S.M. Konnagar.
2-11-25	R	Crookshank , HENRY, B.A., B.A.I. (DUBLIN), <i>Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.</i>

Date of Election.		
7-12-36	R	Daga , MADAN GOPAL. 374, Upper Circular Road, Calcutta.
7-3-32	R	Darbari , M. D., <i>Incorporated Accountant, S. B. Billimoria & Co., Ltd.</i> 100, Olive Street, Calcutta.
4-3-25	R	Das , AJIT NATH, RAI BAHADUR, M.B.A.S., F.Z.S., <i>Zemindar</i> . 24, South Road, Entally, Calcutta.
1-3-26	R	Datta , HIRENDRA NATH, M.A., B.L., <i>Solicitor, High Court</i> . 139, Cornwallis Street, Calcutta.
6-8-24	L	Davies , L. M., LT.-COL., M.A. F.R.S.E., F.B.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	R	De , J. C., M.B., LT.-COL., I.M.S. 11, Rowland Road, Calcutta.
19-9-95	L	De , KIRAN CHANDRA, C.I.E., B.A., I.C.S. (RETD.), <i>Manager, Nawab Bahadur of Murshidabad Estate</i> . Lalbagh, Murshidabad.
4-3-25	R	Deb , KSHITINDRA, RAI MAHASAI. 21/E, Rani Sankari Lane, Kalighat, Calcutta.
5-12-27	L	Dechhen , H.H. MAHARANI KUNZANG, <i>Maharani of Sikkim</i> . Gangtok, Sikkim.
5-5-30	N	Deo , SIR PRATAP CHANDRA BHANJ, K.C.I.E., <i>Maharajah, Ruler of Mayurbhanj State</i> . P.O. Baripada, Mayurbhanj, B.N.R.
7-3-38	N	Deva , SETH KRISHN, <i>General Manager, Nawabganj Sugar Mills Co., Ltd.</i> Nawabganj, Gonda, U.P.
5-11-34	R	Dey , MUKUL, A.R.C.A. (LOND.), M.C.S.E. (U.S.A.), F.R.S.A., etc., <i>Principal, Govt. School of Art; Officer in charge, Art Section Keeper of Govt. Art Gallery; Trustee, Indian Museum</i> . 28, Chowringhee, Calcutta.
4-5-10	L	Dhavl , THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., <i>Judge, Patna High Court</i> . Patna.
4-8-20	N	*Dikshit , KASHINATH NARAYAN, M.A., F.R.A.S.B. c/o The Office of the Director-General of Archaeology, New Delhi.
5-1-98	R	Dods , WILLIAM KANE, <i>Agent Hongkong and Shanghai Banking Corporation</i> . 6, Minto Park, Alipur, Calcutta.
5-9-38	R	Dominguez , BERNARDO, <i>Consul for Panama</i> . 35, Chowringhee, Calcutta.
2-2-31	A	Douglas , GORDON WATSON, B.SC., D.L.M., <i>State Chemist to the Government of Bhopal</i> . State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey , FREDERICK. 'Ballygunge', Cooden Drive, Bexhill-on-Sea, Sussex, England.
7-11-32	R	Driver , DARAB CURSETJI, M.A. (CANTAB.), <i>Barrister-at-Law, Constituted Attorney to Messrs. Tata & Sons, Ltd., Managing Agents for The Tata Iron & Steel Co., Ltd.</i> 87/C, Park Street, Calcutta.
6-6-38	N	Dudhoria , NABA KUMAR SING, <i>Zemindar and Banker</i> . Azimganj. Dt. Murshidabad.
1-7-29	R	Dunn , JOHN ALEXANDER, D.SC., D.I.C., F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
6-9-37	R	Durnitz-Podewils , COUNT, <i>Consul-General for Germany</i> . 34, Park Street, Calcutta.
2-1-33	R	Dutch , ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., <i>District Judge</i> . Alipore, Calcutta.
3-7-33	R	Dutt , GURU SADAY, <i>Barrister-at-Law</i> , I.C.S. 12, London Street, Calcutta.

Date of Election		
30-9-35	R	Dutt, MOHENDRA NATH, L.R., Consulting Engineer. 12, Kailas Bose Lane, Howrah.
5-12-32	R	Dutt, NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), Lecturer, Calcutta University. 91-113, Manicktollah Street, Calcutta.
5-3-28	A	Eberl, OTTO, DR. JUR., Late Vice-Consul for Germany. 2, Store Road, Ballygunge, Calcutta.
4-11-29	R	Edwards, L. BROOKE, Manager in India, The Baldwin Loco. Works of Philadelphia, U.S.A. 5, Dalhousie Square, Calcutta.
1-11-38	R	Eekhout, JHR. P.J., Vice-Consul for Netherlands. F-1, Clive Buildings, Clive Street, Calcutta.
5-1-31	L	Evans, PERCY, B.A. (CANTAB.), F.G.S., Geologist. c/o The Burma Oil Co., Digboi, Assam.
6-2-28	L	Ezra, SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-5-38	R	Faroqui, NAWAB SIR K. G. M., Kt., of Ratanpur. 20/1, Store Road, Calcutta.
2-12-29	N	Fawcus, LOUIS REGINALD, B.A. (CANTAB.), Indian Civil Service, Magistrate and Collector. Dacca.
3-8-04	L	*Fermor, SIR LEWIS LEIGH, KT., O.B.E., M.INST.M.M., D.SC., A.R.S.M., F.G.S., F.R.S., F.R.A.S.B., Late Director, Geological Survey of India. c/o Messrs. Lloyds Bank, Ltd., 6, Pall Mall, London.
31-10-06	F	Finlow, ROBERT STEEL, C.I.E., B.SC., F.I.C., Late Director of Agriculture, Bengal. c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.
3-2-36	R	Flury, E. C., Manager, Messrs. Volkart Bros. Post Box No. 606, Calcutta.
5-11-13	R	Fox, CYRIL S., D.SC. (BIRM.), M.I.M.E., F.G.S. Geological Survey of India, 27, Chowringhee, Calcutta.
5-11-28	R	Galstaun, JOHN CARAPIET, O.B.E., Merchant and Landholder. 234/4, Lower Circular Road, Calcutta.
1-11-26	R	Galstaun, SHANAZAN, G., M.A., D.M.R.E., M.R.C.S., L.R.C.P., Medical Practitioner, Radiologist, Medical College Hospital. 34, Chowringhee Road, Calcutta.
6-10-09	R	*Gangoly, ORDHENDRA COOMAR, B.A., F.R.A.S.B., Asutosh Mukherjee Road, Calcutta.
7-9-36	R	Gangooly, PHANINDRA LAL, M.A., Lecturer in Mathematics, Calcutta University. P. 507, Rash Behari Avenue, Calcutta.
5-11-34	R	Gee, EDWARD ROWLAND, M.A. (CANTAB.), F.G.S., Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
2-1-33	N	George, JAMES, B.A. (CANTAB.), I.C.S., Joint Magistrate and Dy. Collector. Dacca.
6-2-33	L	Ghatak, JYOTISH CHANDRA, M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, Professor. 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.
7-5-28	R	Ghosal, UPENDRA NATH, M.A., PH.D., Professor of History, Presidency College. 21, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose, BIMAL CHANDRA, Barrister-at-Law. 27/1, Harish Mukherjee Road, Calcutta.
1-4-29	R	Ghose, DEB PROSONNO, Zemindar. 75, Beadon Street, Calcutta.

Date of Election.		
7-1-29	R	Ghose, THE HON'BLE MR. JUSTICE MOHIM CHANDRA, B.A. (CAL.), M.A. (CANTAB.), I.C.S., Barrister-at-Law (Inner Temple), Judge, High Court. 4A, Little Russell Street, Calcutta.
3-12-24	R	Ghose, SUSHIL CHANDRA, B.A., Deputy Magistrate. 1, Sikdarbagan Street, Calcutta.
7-9-36	R	Ghosh, J., M.A. (CAL.), PH.D. (EDIN.), F.N.I., Professor of Mathematics. Presidency College, Calcutta.
2-4-24	R	Ghosh, K., D.T.M., D.P.H. (CANTAB.), L.M.S., Medical Practitioner. 45, Creek Row, Calcutta.
7-3-27	R	Ghosh, PHANINDRA NATH, M.A., PH.D., SC.D. (PADUA), F.INST.P., Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta. 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh, TARAPADA, Zemindar. 14, Paddapukur Street, Kidderpore, Calcutta.
1-2-26	R	Ghuznavi, SIR ABDUL HALIM, KT., M.L.A., Zemindar. 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi, ISKANDER S. K., Zemindar. 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.
1-2-26	R	Ghuznavi, ALHADJ SIR ABDELKERIM ABU AHMED KHAN, KT., M.L.C., Zemindar of Dilduar. 45, Jhowtolla Road, Calcutta (and) North House, Dilduar, Mymensingh.
7-12-36	R	Gillespie, ANDREW DOLLAR, Chemist and Senior Partner, Messrs. Bathgate & Co. 17, Old Court House Street, Calcutta.
5-3-28	R	Gooptu, DWIJENDRA NATH, Medical Practitioner and Landholder. 5, Middleton Street, Calcutta.
7-9-10	N	*Gravelly, FREDERIC HENRY, D.SC., F.R.A.S.B. Museum House, Egmore, Madras.
5-12-00	L	Grieve, JAMES WYNDHAM ALLEYNE. c/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-3-35	R	Groth, EDWARD, M., American Consul. American Consulate General, 9, Esplanade Mansions, Esplanade, Calcutta.
4-2-25	R	Guha, B. S., M.A., PH.D. (HARVARD). Indian Museum, Calcutta.
5-3-19	N	Gupta, SIVAPRASAD. Seva Upavana, Benares City.
5-8-15	R	Gurner, CYRIL WALTER, B.A. (OXON), I.C.S., Chairman, Improvement Trust. 4, Theatre Road, Calcutta.
6-3-01	N	Habib-ur-Rahman, THE HON'BLE NAWAB SADR YAR JUNG MAULANA, F.R.A.S.B., Rais, Bhikanpur. Habibganj, District Aligarh.
5-2-34	R	Haldar, BHARATI VIKAS, M.A., B.L., Advocate, High Court. 47, Haldarpara Road, Kalighat, Calcutta.
6-1-30	A	Haldar, SUDEHNDRA KUMAR, M.A., I.C.S., Commissioner of Excise and Salt, Bengal. 241, Lower Circular Road, Calcutta.
6-9-37	N	Halim, ABDUL, M.A., Lecturer in History, Muslim University. Aligarh.
6-1-30	F	Hamilton, SIR DANIEL MACKINNON, KT., Retired Partner, Messrs. Mackinnon Mackenzie & Co. Balmacara, Rosshire, Scotland.
2-4-24	R	Haq, M. MAHFUZ-UL, M.A., Lecturer, Presidency College. 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	F	Harley, ALEXANDER HAMILTON, M.A., I.E.S., Late Principal, Islamia College. 19, Wellesley Square, Calcutta.

Date of Election.		
1-2-26	F	Harris, H. G. Gunnespory Avenue, Ealing, London.
2-4-28	R	Harris, LAWRENCE ERNEST , <i>Engineer, Manager for India, Messrs. Sulzer Brothers.</i> 4, Lyons Range, Calcutta.
5-11-19	N	Hemraj, MANYABARA RAJ GURU , C.I.E., PANDITJI. Dhokatole, Nepal.
6-8-28	R	*Heron, A. M. , D.SC. (EDIN.), F.G.S., F.R.G.S., F.R.S.F., <i>Late Director, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
7-6-11	L	*Hidāyat Hosain, MUHAMMAD, SHAMS'UL-'ULAMA, KHAN BAHADUR , PH.D., F.R.A.S.B. 96/2c, Collin Street, Calcutta.
4-11-35	R	Hirtzel, MICHAEL ARTHUR FREDERICK , B.A. (TRINITY COLLEGE, OXFORD), <i>Mercantile Assistant, Macneill & Co.</i> 2, Fairlie Place, Calcutta.
1-4-25	R	Hobbs, HENRY , MAJOR, V.D., <i>Merchant.</i> 9, Old Court House Street, Calcutta.
7-3-27	A	Hopkinson, ARTHUR JOHN , I.C.S., <i>Secretary to the Government, N.-W.F. Province.</i> Peshawar, N.-W.F.P.
2-11-21	L	*Hora, SUNDER LAL, RAI BAHADUR , D.SC., F.Z.S., F.R.S.E., F.R.A.S.B. <i>Zoological Survey of India, Indian Museum,</i> Calcutta.
6-6-23	L	*Howard, SIR ALBERT, KT. , C.I.E., M.A., F.R.A.S.B., <i>Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India.</i> 14, Liskeard Gardens, Blackheath, London, S.E. 3.
7-3-32	R	Hughes, ARTHUR , R.A. (MANCHESTER), <i>Indian Civil Service</i> The Mall, Dum Dum.
6-8-34	N	Husain, SYED ATA , M.A. (CAL.), C.E. (ROORKEE), <i>Retired Superintending Engineer, Hyderabad State.</i> Mohalla Lingumpally, Hyderabad, Deccan.
6-6-23	F	*Hutton, J. H. , C.I.E., I.C.S., M.A., D.SC., F.R.A.S.B. <i>University Museum of Archaeology and Ethnology,</i> Downing Street, Cambridge, England.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe, Hants, England.
2-5-38	R	Jacob, J. R. , <i>Director, Messrs. B. N. Elias & Co., Merchant and Landholder.</i> Norton Buildings, Old Court House Corner, Calcutta.
6-6-27	L	Jain, BALDEODAS , <i>Merchant and Banker.</i> 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHHOTE LAL , M.R.A.S. 174, Central Avenue, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Dovashrama, Arrah.
6-8-28	N	Jaitly, P. L. , <i>Electrical Engineer, Merchant.</i> 15, Canning Road, Allahabad.
1-11-26	N	Jameson, THOMAS BLANDFORD , MAJOR, M.C., M.A. (CAN-TAB.), I.C.S., <i>District and Sessions Judge.</i> Dinajpur.
1-11-38	R	Jatia, KANAI LALL , 21, Roopchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN , D.SC. (SHEFFIELD), L.E.S., <i>Director of Public Instruction, Bengal.</i> United Service Club, Calcutta.
5-4-26	A	Jones, THORNTON , <i>Solicitor.</i> c/o Messrs. Morgan & Co., 1, Hastings Street, Calcutta.
1-11-11	L	Kamaluddin, AHMAD, SHAMS'UL-'ULAMA , M.A., I.E.S., 3, Nawab Abdur Rahman Street, Calcutta.

Date of Election.		
4-5-10	L	*Kemp, STANLEY W. , B.A., D.SC., F.R.S., F.A.S.B. <i>Marine Biological Association of U.K.</i> The Laboratory, Citadel Hill, Alymouth, England.
2-5-30	A	Kenny, DICK EDWARD COURTENAY , LT.-COL., I.A., <i>Deputy Commissioner, Tavoy.</i> Burma.
3-12-24	R	Khan, REZAUR RAHMAN , M.A., B.L., <i>Deputy President, Bengal Legislative Council.</i> 46, Old Ballygunge 1st Lane, Calcutta.
6-5-25	R	Khanna, VINAYEK LAL , M.R.A.S., <i>Merchant.</i> 137F, Balaram Dey Street, Beadon Street P.O., Calcutta.
2-8-26	R	Khettry, BENIMADHO , <i>Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants.</i> 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (KO-SHI) , <i>Principal, College Department of Rinsko University.</i> Osaki Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER , B.SC., <i>Inspector of Mines in India.</i> Dhanbad, F.I.R.
4-11-35	R	Klebe, ANINA , née BRANDT, PH.D. (GREIFSWALD, GERMANY), <i>Psychologist.</i> 26, Royal Court, 5/1, Russell Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.) , PH.D., <i>Lecturer in Ancient Indian History (Fine Arts), Calcutta University.</i> 7, Raja Santosh Road, Alipur, Calcutta.
2-4-28	R	Kumar, KUMAR KRISHNA , M.A., B.L., <i>Zemindar and Banker.</i> 31 & 31-1, Burtolla Street, Calcutta.
7-3-23	A	Labey, GEORGE THOMAS , M.C., <i>Bengal Pilot Service.</i> United Service Club, Calcutta.
4-2-35	R	Lal, RAM BIHARI , M.B., B.S., D.P.H., D.T.M. & H., D.B., <i>Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health.</i> 21, Chittaranjan Avenue, Calcutta.
5-2-34	R	Law, BHABANI CHURN , <i>Merchant, Zemindar and Artist.</i> 223, Cornwallis Street, Calcutta.
5-8-14	L	Law, BIMALA CHARAN , M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.
1-2-11	R	*Law, NARENDRA NATH , M.A., B.L., PH.D., F.R.A.S.B. 96, Amherst Street, Calcutta.
4-2-35	R	Law, PARBUTTY CHURN. 223, Cornwallis Street, Calcutta.
1-7-14	R	Law, SATYA CHURN , M.A., B.L., PH.D., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
7-6-26	R	Lemmon, RICHARD DENNIS , <i>Merchant.</i> c/o Messrs. Martin & Harris, Ltd., 17, Prinsep Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN , K.C., <i>Barrister-at-Law, Judge, High Court.</i> 227/1, Lower Circular Road, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM , I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID , LT.-COL., I.M.S., M.D., B.CH., B.A.O., M.B.C.P., F.R.A.S.B. c/o The Standard Bank of S. Africa, Cradock, Cape Province, S. Africa.
1-3-26	R	McKay, JOHN WALLACE. c/o Messrs. Duncan Bros. & Co., Ltd. 2, Metcalfe Street, Calcutta.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS , K.C.S.I., K.C.I.E., F.R.A.S.B. 39, Egerton Terrace, London, S.W. 3.
7-6-16	N	Mahajan, SUREYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C. , M.A., B.SC., I.E.S., <i>Professor, Presidency College.</i> 210, Cornwallis Street, Calcutta.

Date of Election.		
2-5-38	R	Mahtab , MAHARAJ KUMAR, A. C. Bijay Manzil, 2, Judge's Court Road, Alipur, Calcutta.
1-3-11	R	Mahtab , SIR BIJAY CHAND, K.C.S.I., I.O.M., MAHARAJA-DHIRAJA BAHADUR OF BURDWAN. 2, Judge's Court Road, Alipur, Calcutta.
3-2-30	N	Mahtab , UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan</i> . The Palace, Burdwan.
6-2-24	R	Mahindra , K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.
2-2-16	R	Majumdar , NARENDRA KUMAR, M.A., <i>Professor, Calcutta University</i> . 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar , RAMESH CHANDRA, M.A., PH.D., <i>Vice-Chancellor, Dacca University</i> . Ramna, Dacca.
5-5-30	A	Mallam , G. L., CAPTAIN, I.A., <i>Census Superintendent</i> . Peshawar, N.-W.F.P.
4-11-29	R	Mallya , BANTWAL GANAPATHY, LT.-COL., I.M.S., F.R.C.S.E. Campbell Medical School, Calcutta.
7-9-36	N	Mandhata , H. C., M.A. (ALLAHABAD), <i>Member, Pelman Institute, formerly History Lecturer, Agra College</i> . Ghaziabad, Meerut.
6-2-18	L	*Manen , JOHAN VAN, C.I.E., <i>Officer de l'Instruction Publique</i> , F.R.A.S.B. 6, Temple Chambers, 6, Old Post Office Street, Calcutta.
5-6-01	F	Mann , HAROLD HART, D.SC. M.SC., F.I.C., F.L.S. Woburn Experimental Station, Aspley Guise, Bedfordshire, England.
6-1-30	A	Martin , M. F. C., CAPT., R.F. c/o The Garrison Engineer, Mingladon, Burma.
5-5-30	A	Matthias , OWEN GARDINER, <i>Managing Director, Messrs. Smith Stanistreet & Co., Ltd.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
2-1-28	N	Mello , FRONLANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India, Professor of Parasitology</i> . Nova Gôa.
6-6-38	R	Merens , ALLARD, <i>Consul-General for Netherlands</i> . F-1, Clive Buildings, Clive Street, Calcutta.
5-11-84	L	*Middlemiss , CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.S., F.R.A.S.B. Aviemore, Crowborough, Sussex, England.
1-2-26	N	*Mills , JAMES PHILIP, I.C.S., M.A. (OXON), J.P., F.R.A.S.B. Shillong, Assam.
5-6-12	N	Misra , CHAMPA RAM, B.A., Rai Bahadur, Pandit, <i>Diwan</i> , Chhatarpur State. Bundelkhand, C.I.
2-4-24	R	Mitra , J. C., M.A., B.L., <i>Retired Accountant-General</i> , Bengal. 1, Abinash Mitter Lane, Calcutta.
5-3-24	N	Mitter , THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law, Advocate-General, Federal Court</i> . New Delhi.
5-4-26	R	Mitter , KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor, Presidency College (Retired)</i> . 6, Ballygunge Place, Calcutta.
30-9-35	R	Mitter , SUDHIR CHUNDER, <i>Barrister-at-Law</i> . 19, Camac Street, Calcutta.
7-12-36	R	Mittra , S. C. 34, Shampukur Street, Calcutta.
1-11-26	R	Modi , JAL R. K., B.A. 4, Camac Street, Calcutta.
5-3-34	R	Modi , JEHANGIR JEEVANJI JAMSHEDJI, <i>Merchant</i> . 5, Dhurrumtollah Street, Calcutta.
5-7-37	N	Mozumdar , SUPRABHAT, <i>Master, Rajkumar College</i> . Staff Club, Raipur, C.P.

Date of Election.		
7-12-36	R	Mookerjee, B. G., <i>Zemindar and Merchant.</i> Bakulia House, Kidderpore, Calcutta.
5-11-24	R	Mookerjee, B. N., B.A. (CANTAB.), <i>Engineer.</i> 12, Mission Row, Calcutta.
2-7-24	R	Mookerjee, SYAMAPRASAD, M.A., B.L., D.LITT., <i>Vakil, High Court, Vice-Chancellor, Calcutta University.</i> 77, Asutosh Mookerjee Road North, Calcutta.
5-4-37	N	Mooney, H. F., I.F.S., <i>Forest Adviser.</i> Sambalpur, B.N. Ry., Orissa.
2-2-21	N	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., DOCTEUR-ES-LETTRES (PARIS), <i>Secretary, Mayurbhanj State.</i> Baripada.
5-12-27	R	Mukherjee, SUSIL KUMAR, F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals.</i> 1/1, Wood Street, Calcutta.
6-2-28	R	Mukerji, SIR MANMATHA NATH, KT., M.A., B.L., <i>Late Judge, High Court.</i> 8/1, Harsi Street, Calcutta.
7-11-27	N	Mukherjee, DEVAPROSANNA, M.A., B.L., <i>Zemindar.</i> Burdwan.
2-8-26	R	*Mukherjee, JNANENDRA NATH, D.SC. (LONDON), F.C.S. (LONDON), F.R.A.S.B., <i>Fellow of the Indian Chemical Society; Khaira Professor of Chemistry, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
5-7-37	R	Mukerji, PANNALAL, RAI BAHADUR, <i>Zemindar and Honorary Magistrate.</i> 7, Rajmohan Road, Uttarpura, Hooghly.
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR, M.A., <i>Research Assistant, Calcutta University.</i> 6, Hindustan Park, Ballygunge, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD, M.A., B.L., 77, Ashutosh Mookerjee Road North, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR, <i>Director, Raja D. N. Mullick & Sons, Ltd.</i> Colootola Rajbati, Chittaranjan Avenue, Calcutta.
6-8-34	R	Mullick, MANICK LALL, <i>Landholder; Honorary Magistrate, Sealdah.</i> 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR, <i>Zemindar and Landholder.</i> 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLORIAN OLIPHANT, A.I.M.M., F.G.S., <i>Mining Geologist and Engineer.</i> Tatanagar, B. N. Ry.
5-12-27	L	Namgyal, H.H. MAHARAJA SIR TASHI, K.C.I.E., <i>Maharaja of Sikkim.</i> Gangtok, Sikkim.
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA, M.A., M.L.C., <i>Zemindar.</i> Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HIRDE, M.A., B.T., <i>Professor of History, Morris College.</i> Nagpur, C.P.
5-2-34	N	Nariman, RUSTOM, K., M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), <i>Professor of Engineering, Osmania University.</i> c/o The Union Bank of India, Fort, Bombay.
5-3-28	R	Neogi, PANCHANAN, M.A., PH.D., I.E.S., <i>Professor of Chemistry, Presidency College.</i> 21, Kundu Lane, Belgachia, Calcutta.
3-11-30	N	Newman, CARL DAMIEN, M.B.B.S., D.T.M., & H., <i>District Medical Officer, E.B. Ry.</i> Lalmonirhat, E.B. Ry.
3-12-24	A	Newman, CHAS. F., F.R.G.S., M.R.S.T., M.O.P. Ramnagar, Benares.

Date of Election.		
7-4-15	F	Ohtani , COUNT KOZUL. San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala , E. S. 52, Chowringhee, Calcutta.
5-2-34	R	Pasricha , CHIRANJI LAL, M.A., M.B., B.CHIR. (CANTAB.), M.R.C.S. (ENG.), L.R.C.P. (LOND.), MAJOR, I.M.S., <i>Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene</i> . Chittaranjan Avenue, Calcutta.
6-6-88	L	Pannell , AUBRAY PERCIVAL, B.A., <i>Barrister-at-Law</i> . Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival , FREDERICK GEORGE, PH.D. (LOND.), F.G.S., <i>General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co.</i> Jamshedpur.
1-4-25	R	Perier , FERDINAND, S.J., <i>Most Reverend the Archbishop of Calcutta</i> . 32, Park Street, Calcutta.
3-4-18	L	*Prashad , BAINI, D.SC., F.Z.S., F.R.S.E., F.R.A.S.B., <i>Director, Zoological Survey of India</i> . Indian Museum, Calcutta.
3-8-25	N	Pruthi , HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), <i>Imperial Entomologist, Imperial Institute of Agricultural Research</i> . Pusa, Darbhanga.
3-12-24	R	Pushong , E. S., M.D., L.S.A., <i>Medical Practitioner</i> . 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman , SHAH KALIMUR, M.A., <i>Lecturer in Arabic and Persian, Calcutta University</i> . 51, Baitakhana Road, Calcutta.
7-9-36	N	Ram , DOULAT, <i>Accountant, Military Secretary's Office</i> . c/o Messrs. Biru Mal Chiranjil Lal, Chhatla Magni Ram, Patiala.
6-4-36	R	Rankin , E. H. 6, Durgapore Park (or 6, Church Lane), Calcutta.
6-8-34	R	Rao , U. SHANKER, <i>Bengal Pilot Service</i> . 83, Chowringhee, Calcutta.
1-2-26	N	Rao , Y. RAMACHANDRA, RAO SAHIB, M.A., F.E.S., <i>Locust Research Entomologist</i> . 5, Scindia House, New Delhi.
2-7-24	N	Ray , ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	A	Ray , HEM CHANDRA, M.A., PH.D. (LONDON). P. 39A, Manicktollah Spur, Calcutta.
5-1-21	N	Ray , JAGADISNATH, MAHARAJA, <i>Maharaja of Dinajpore</i> . Dinajpore.
5-3-90	R	*Ray , SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.R.A.S.B. <i>University College of Science</i> , 92, Upper Circular Road, Calcutta.
5-11-28	L	Reinhart , WERNER, <i>Merchant</i> . c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.
2-4-24	F	Richards , F. J., I.C.S. 1-A, Collingham Road, London, S.W. 5.
5-2-34	R	Richter , HERBERT, DR. JUR., <i>Vice-Consul for Germany</i> . 26, Lee Road, Calcutta.
1-4-29	N	Rizvi , SYED HAMID HUSAIN, <i>Excise Sub-Inspector</i> . Mohalla Sauechri, Near Masjid of Munshi Sk. Ghassu, Saugor, C.P.
3-12-24	L	Roerich , GEORGE NICHOLAS, M.A., M.R.A.S., <i>Orientalist</i> . 310, Riverside Drive, New York, U.S.A. ('Urusvati' Naggar, Kulu, Punjab).

Date of Election.		
2-7-28	L	Roerich, NICHOLAS , <i>Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter.</i> 310, Riverside Drive, New York, U.S.A.
4-12-01	F	*Ross, SIR EDWARD DENISON, KT., C.I.E., PH.D., F.R.A.S.B. 229, St. James Court, Buckingham Gate, London, S.W. 1.
5-6-33	R	Rossetti, FELIX FRANCIS LEO , <i>Secretary, Y.M.C.A.</i> 42, Corporation Street, Calcutta.
6-12-26	R	Roy, SIR A. K., KT., Barrister-at-Law, Advocate-General, Bengal. 3, Upper Wood Street, P.O. Theatre Road, Calcutta.
5-4-37	N	Roy, DAVID , <i>Assam Civil Service.</i> Shillong, Assam.
1-12-30	N	Roy, KUMAR KAMALARANJAN, B.A., Zemindar. Kashim-bazar Post, Dt. Murshidabad.
6-8-24	N	Roy-Chowdhury, BRAJENDRA KISHORE, Zemindar. (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.
7-5-28	R	*Saha, MEGH NAD, D.SC., F.R.S., F.R.A.S.B., Palit Professor of Physics, Calcutta University. 92, Upper Circular Road, Calcutta.
5-4-37	R	Sahni, M. R., M.A. (CANTAB.), D.SC. (LOND.), D.I.C., Geologist, Geological Survey of India. 27, Chowringhee, Calcutta.
5-2-34	L	Sale, HAROLD MONTAGUE, M.A., F.G.S., Mancellor College, Athershorne, Warwickshire, England.
4-2-35	R	Sarkar, THE HON'BLE MR. NALINI RANJAN. Hindusthan Buildings, Corporation Street, Calcutta.
5-4-37	R	Sattar, THE HON'BLE MR. A. R. H. A., Member, Council of State. 32, Ezra Street, Calcutta.
6-3-33	R	Seal, SATIS CHANDRA, M.A., B.L., Honorary Secretary, Indian Research Institute. 55, Upper Chitpore Road, Calcutta.
5-2-34	A	Selzam, EDWART VON, German Diplomatic Service, Consulate-General for Germany. 26, Lee Road, Calcutta.
1-4-25	R	Sen, BENOY CHANDRA, M.A. 'Rupeswar', Diamond Harbour Road, Behala.
9-12-36	R	Sen, D. N. 7, Rawdon Street, Calcutta.
3-12-24	N	Sen, H. K., M.A., D.SC. (LONDON), D.I.C., Director, Indian Lac Research Institute. Namkum, Ranchi.
1-6-36	N	Sen, J. M., M.ED. (LEEDS), B.SC. (CAL.), T.D. (LOND.), DIP.ED. (OXFORD), F.R.G.S., F.N.I. Principal, Krishnagar College. Krishnagar, Nadia.
5-12-23	L	Sen, LAKSHMAN, H.H. RAJA OF SUKET. Suket State, Punjab.
5-4-37	N	Sen, KSHITISH MOHAN. Visvabharati, Santiniketan, Dist. Birhum.
1-4-29	R	Sen-Gupta, NARES CHANDRA, M.A., D.L., Advocate, High Court. 88A, Lansdowne Road, Bhowanipore, Calcutta.
5-7-11	L	*Sewell, ROBERT HERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.R.A.S.B., LT.-COL., I.M.S., Late Director, Zoological Survey of India. 18, Barrow Road, Cambridge, England.
5-4-37	N	Sharaf-ud-Din, S., M.A., B.L., Professor, Chittagong College. Chittagong.
2-11-25	N	Sharif, MOHAMMAD, D.SC., F.R.M.S., F.L.S., Lecturer in Zoology. Muslim University, Aligarh.
6-5-29	N	Sharma, SRI RAM, M.A., M.B.A.S., M.A.O.S., Professor of History. D.A.V. College, Lahore.

Date of Election		
5-8-35	N	Shattock , JOHN SWITHIN HARVEY, B.A. (OXON), I.C.S., Defence Department, New Delhi.
2-5-23	F	Shebbeare , E. O., <i>Chief Game Warden</i> . Post Box No. 376, Kuala Lumpur, F.M.S.
6-1-09	N	Shirreff , ALEXANDER GRIERSON, B.A., I.C.S., <i>Commissioner, Gorakhpur</i> . U.P.
4-1-26	A	Shortt , H. E., LT.-COL., I.M.S., <i>Director, King's Institute, Quindy</i> . Madras.
6-2-28	L	Shumser , JUNG BAHADUR RANA, SIR KAISER, K.B.E., SURPRADIPTA MANYAVARA, LIEUT.-GENERAL, <i>Nepalese Army</i> . Kaiser Mahal, Kathmandu, Nepal.
4-11-29	R	Siddiqi , MOHAMMAD ZUBAYR, M.A., PH.D., <i>Sir Asutosh Professor of Islamic Culture, Calcutta University</i> . P. 274, Bright Street, Park Circus, Calcutta.
5-3-13	L	*Simonsen , JOHN LIONEL, D.SC., F.I.C., F.R.S., F.R.A.S.B. University College of North Wales, Bangor, North Wales.
6-2-18	N	Singh , MANYABARA BADA KAJI MARICHI MAN, PANDITJI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	F	Singh , JAIPAL, M.A. (<i>Modern Greats</i>), <i>St. John's College, Oxford University</i> . Achinota College, Accra, West Africa.
5-3-34	L	Singh , HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR K.C.I.E. Darbhanga.
2-1-33	N	Singh , RUDRA PERTAB, RAO BAHADUR, <i>Proprietor, Sonbarsa Raj</i> . Sonbarsa P.O., District Bhagalpore.
4-2-35	A	Singh , SARABJIT, M.A., B.L. P.O. Imphal, Manipur State.
3-6-35	R	Singhanla , RAGHUNATH PRASAD, VIDYABHUSAN-VISARAD, <i>Secretary, Rajasthan Research Society</i> . 73A, Chasa Dhoba Para Street, Simla, Calcutta.
5-9-12	R	Singhi , BAHADUR SINGH. (Azimganj. Murshidabad). 48, Garahat Road, Calcutta.
7-9-36	R	Singh-Roy , THE HON'BLE B. P. 15, Lansdowne Road, Calcutta.
7-8-33	N	Sinh , RAGHUBIR, RAJKUMAR, M.A., LL.B., <i>Heir-Apparent of Sitamau State</i> . Raghubir Niwas, Sitamau, C.I.
1-8-38	R	Sinha , B. 4, Hastings Park Street, Calcutta.
6-6-27	N	Sinha , SHEONANDAN PRASAD, M.D., <i>Assistant Surgeon</i> . Government Hospital. Jamshedpur.
6-2-28	R	Sinha , SUHRID CHANDRA. KUMAR, M.SC. 15/1, Ram Kanta Bose Street, Shambazar, Calcutta.
4-1-26	N	Sinton , J. A., O.B.E., LT.-COL., I.M.S., V.C., <i>Officer-in-Charge, Malaria Bureau</i> . Central Research Institute, Kasauli.
5-7-16	L	Sircar , GANAPATI, VIDYARATNA. 69, Beliaghata Main Road, Calcutta.
5-3-24	N	Sircar , THE HON'BLE SIR NRIPENDRA NATH, K.C.S.I., KT., M.A., B.L., <i>Barrister-at-Law, Law Member, H.E. The Viceroy's Executive Council</i> . New Delhi.
5-3-24	R	Sircar , SIR NIL RATAN, KT., M.A., M.D., <i>Physician</i> . 7, Short Street, Calcutta.
5-8-29	R	Sommerfeld , ALFRED, <i>Merchant</i> . c/o Mousoll & Co., Mercantile Buildings, Lall Bazar, Calcutta.
3-9-34	R	Sondhi , VED PALL, M.SC., F.G.S., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
7-3-23	F	Stamp , L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.

Date of Election.		
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., D.SC., I.E.S., F.R.A.S.B., <i>Late Director of Public Instruction, Bengal. St. Brelade, Jersey, C.I., England.</i>
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., <i>Director of Public Instruction. Madras.</i>
5-4-37	R	Sufi, M. E., B.A., D.P.H., L.R.C.P.E., L.R.C.S.E., L.F.P.S.G., <i>Assistant Director of Public Health, Bengal (retd.). 8/A/1, Elliott Lane, Calcutta.</i>
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., <i>Chief Medical Officer, E.R. Ry., late Vice-Chancellor, Calcutta University. 3, Suhrawardy Avenue, Park Circus, Calcutta.</i>
3-3-20	N	Sundararaj, BUNGURU, M.A., PH.D., <i>Director of Fisheries. Chepauk, Madras.</i>
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, Major-General in the Nepalese Army. <i>Singha Darbar, Kathmandu, Nepal.</i>
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT., MAHARAJA BAHADUR. <i>'Tagore Castle', 12, Prasanna Coomar Tagore Street, Calcutta.</i>
7-11-27	R	Tarkatirtha, BIMALANANDA, Kaviraj, Punditbhusan, Byakaranatirtha. <i>90/3, Grey Street, Calcutta.</i>
31-8-93	L	Tate, GEORGE PASSMAN. <i>50, Cantonment, Bareilly, U.P.</i>
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.R.A.S.B. <i>'The Laurels', Glebe Road, Cambridge, England.</i>
6-6-38	N	Tressler, G. W., M.A., <i>Senior Professor of History and Political Science, Murray College. Sialkot, Punjab.</i>
7-5-28	F	Tucci, GUISEPPE, PH.D., <i>Late Professor of Religions and Philosophy of India and the Far East, University of Rome; Professor of Chinese, University of Naples. Naples, Italy.</i>
5-7-26	A	Tyson, JOHN DAWSON, C.B.E., M.A. (OXON), I.C.S., J.P. <i>c/o U.S. Club, Calcutta.</i>
4-7-27	A	Vance, R. L., M.B., B.C.H., B.A.O. (DUB.), L.M. (ROT.), MAJOR, I.M.S., <i>Officiating Chief Medical Officer, Western India States Agency. Rajkot, Kathiawar.</i>
4-1-37	R	Vedantatirtha, NARENDRA CHANDRA, M.A. (BAGCHI, BHATTACHARJA, SANKHYATIETHA, MIMAMSATIETHA, TATTVARATNA, SASTRI), <i>Author and Editor of Books, Secretary and General Editor, 'Calcutta Sanskrit Series'. Metropolitan Printing House.</i>
7-8-33	R	Vedantatirtha, VANAMALI, M.A., <i>Formerly Professor, Cotton College, Gauhati. 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.</i>
5-7-05	R	Vidyabhushan, AMULYA CHARAN. <i>Vangiya Mahakosha, 5, Jadu Mitter Lane (North), Shambazar, Calcutta.</i>
6-3-01	L	*Vogel, JEAN PHILIPPE, LITT.D., F.R.A.S.B. <i>Noordeindsplein. 4a, Lieden, Holland.</i>
27-9-94	L	Voost, WILLIAM, LT.-COL., I.M.S. <i>'Woodhurst', Manor Way, South Craydon, Surrey, England.</i>
6-5-25	N	*Wadia, D. N., M.A., B.SC., F.R.G.S., F.R.A.S.B., <i>Government Mineralogist. Torrington Square, Colombo, Ceylon.</i>
5-3-28	N	Waight, HARRY GEORGE, B.A. (OXON and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge. Burdwan.</i>
2-5-27	A	Watson, SIR ALFRED HENRY, KT., <i>Late Editor, The 'Statesman', Calcutta. England.</i>

Date of Election.		
6-2-33	N	Wellsted, THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., Mining Engineer. Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	A	West, WILLIAM DIXON, M.A. (CANTAB.), Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
1-11-26	R	Westcott, FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), Lord Bishop of Calcutta and Metropolitan of India, Burma and Ceylon. Bishop's House, 51, Chowringhee, Calcutta.
6-4-36	R	White, J. C., American Consulate. 9, Esplanade Mansions, Esplanade, Calcutta.
19-9-06	L	*Whitehead, RICHARD BERTRAM, F.R.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams, HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMB.), Chaplain of Barrackpore. Barrackpore.
7-9-36	R	Williams, N. T., Orr Dignam & Co. 32, Dalhousie Sqr., Calcutta.
6-2-28	F	Williams, T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts., England.
5-4-37	F	Wolfenden, S. N. c/o Security-First National Bank, Beverley Hills Branch, 469, Canyon Drive, California, U.S.A.
1-4-08	R	Wordsworth, WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.), c/o The 'Statesman', Chowringhee Square, Calcutta.
7-3-27	N	Wright, FREDERIC MATTLAND, Broker. Post Box No. 72, Bombay.
5-2-19	N	*Yazdani, GHULAM, M.A., F.R.A.S.B., Epigraphist to the Government of India for Persian and Arabic Inscriptions, Hyderabad. Archæological Survey, Hyderabad, Deccan.

ORDINARY MEMBERS.

(Chronological.)

1884.				1906.			
Nov.	5.	Middlemiss, C. S.		Jan.	3.	Chapman, J. A.	
1887.				Sept.	19.	Whitehead, R. B.	25
Aug.	25.	Criper, W. R.		Oct.	31.	Finlow, R. S.	
1888.				1907.			
June	6.	Pennell, A. P.		July	3.	Brown, J. C.	
1890.				"	"	Christie, W. A. K.	
Mar.	5.	Ray, Sir Prafulla C.		1908.			
<hr/>				Jan.	1.	Brahmachari, Sir U. N.	
1892.				April	1.	Wordsworth, W. C.	30
5 Jan.	11.	MacLagan Sir Edward D.		1909.			
Feb.	1.	Bodding, P. O.		Jan.	6.	Shirreff, A. G.	
1893.				April	7.	Bentley, C. A.	
Aug.	31.	Tate, G. Passman		July	7.	Bazaz, R. K.	
1894.				Oct.	6.	Brown, P.	
Sept.	27.	Vost, W.		"	"	Gangoli, O. C.	35
1895.				1910.			
Sept.	19.	De, K. C.		May	4.	Dhavle, S. B.	
1896.				"	"	Kemp, S. W.	
10 Jan.	8.	Burn, Sir Richard		Sept.	7.	Gravely, F. H.	
1898.				<hr/>			
Jan.	5.	Dods, W. K.		1911.			
April	6.	Tagore, Sir Pradyot C.		Feb.	1.	Insch, J.	
1900.				"	"	Law, N. N.	40
Dec.	5.	Grieve, J. W. A.		Mar.	1.	Mahtab, Sir Bijay Chand	
<hr/>				June	7.	Chatterjee, K. K.	
1901.				"	"	Hosain M. H.	
Mar.	6.	Habib-ur-Rahman.		July	5.	Sewell, R. B. S.	
15 "	"	Vogel, J. P.		Nov.	1.	Ahmed, K.	45
June	5.	Mann, H. H.		<hr/>			
Dec.	4.	Ross, Sir Edward D.		1912.			
1902.				May	1.	Harley, A. H.	
July	2.	Doxey, F.		June	5.	Misra, C.	
1904.				July	3.	Andrews, E. A.	
June	1.	Tipper, G. H.		Sept.	4.	Ghosh, T.	
20 Aug.	3.	Fermor, Sir L. L.		"	"	Singhi, B. S.	50
"	"	Stapleton, H. E.		<hr/>			
1905.				1913.			
July	5.	Vidyabhusana, A. C.		Mar.	5.	Simonsen, J. L.	
Aug.	2.	McCay, D.		April	2.	Calder, C. C.	
<hr/>				June	4.	Majumdar, R. C.	
				Nov.	5.	Fox, C. S.	

1914.

55	Mar.	4.	Bacot, J.
	April	1.	Chaudhuri, G. D.
	July	1.	Law, S. C.
	Aug.	5.	Law, B. C.

1915.

	April	7.	Ohtani, Count K.
60	Aug.	4.	Gurner, C. W.
	Sept.	1.	Cleghorn, M. L. W.
	Oct.	27.	Chatterjee, Sir A.C.

1916.

	Feb.	2.	Majumdar, N. K.
	June	7.	Mahajan, S. P.
65	July	5.	Sarkar, G.

1917.

	April	4.	Awati, P. R.
	"	"	Aiyangar, K. V. R.
	Aug.	1.	Bhandarkar, D. R.

1918.

	Feb.	6.	Banerji, N. N.
70	"	"	Manon, Johan van
	"	"	Singh, B. M.
	April	3.	Prashad, B.

1919.

	Feb.	5.	Yazdani, G.
	Mar.	5.	Gupta, S. P.
75	Nov.	5.	Hemraj, R.

1920.

	Mar.	3.	Mahalanobis, P. C.
	"	"	Sundara Raj, B.
	June	2.	Suhrawardy, Sir H.
	Aug.	4.	Dikshit, K. N.
80	Sept.	1.	Chakladar, H. C.
	"	"	Chanda, R. P.
	"	"	Chatterjee, N. C.
	Dec.	"	Akbar Khan, Sir M.

1921.

	Jan.	5.	Ray, J. N.
85	Feb.	2.	Jain, Chhote Lal
	"	2.	Mukherjee, R. P.
	"	"	Mookherjee, S. C.
	Mar.	2.	Agharkar, S. P.
	Sept.	7.	Ray, H. C.
90	Nov.	2.	Hora, S. L.

1922.

	Feb.	1.	Bhattacharya, V. S.
	"	"	Chopra, R. N.
	April	5.	Abdul Ali, A. F. M.

1923.

	Mar.	7.	Labey, G. T.
	"	"	Stamp, L. D.
	May	2.	Shebbeare, E. O.
	June	6.	Howard, Sir A.
	"	"	Hutton, J. H.
	Aug.	1.	Biswas, K. P.
	Dec.	5.	Chopra, B. N.
	"	"	Barwell, N. F.
	"	"	Sen, H. H. Lakshman

1924.

	Feb.	6.	Mahindra, K. C.
	Mar.	5.	Banerjee, P. N.
	"	"	Mitter, Sir B. L.
	"	"	Sircar, Sir N. N.
	"	"	Sircar, Sir N. R.
	April	2.	Bahl, K. N.
	"	"	Ghose, K.
	"	"	Richards, F. J.
	"	"	Haq, M. M.
	"	"	Mitra, J. C.
	May	7.	Bhattacharya, B.
	July	2.	Ray, A. C.
	Aug.	"	Mookerjee, S. P.
	"	6.	Chatterji, S. K.
	"	"	Roy Chowdhury, B. K.
	"	"	Davies, L. M.
	Nov.	5.	Chattopadhyay, K. P.
	"	"	Mookerji, B. N.
	Dec.	3.	Newman, Chas. F.
	"	"	Pushong, E. S.
	"	"	Basu, J. N.
	"	"	Ghose, S. C.
	"	"	Roerich, G. N.
	"	"	Sen, H. K.
	"	"	Khan, R. R.

1925.

	Feb.	4.	Guba, B. S.
	Mar.	4.	Benthall, Sir E. C.
	"	"	Das, A. N.
	"	"	Deb, K.
	April	1.	Perier, F.
	"	"	Hobbs, H.
	"	"	Sen B. C.
	May	6.	Khanna, V. L.
	"	"	Wadia, D. N.
	July	6.	Bose, M. M.
	Aug.	3.	Pruthi, H. S.
	Nov.	2.	Acharya, P.

140	Nov.	2.	Chattopādhyāya, K. C.
	"	"	Crookshank, H.
	"	"	Kimura, R.
	"	"	Sharif, M.

1926.

	Jan.	4.	Shortt, H. E.
145	"	"	Sinton, J. A.
	Feb.	1.	Rao, Y. R.
	"	"	Ghuznavi, Sir A. K.
	"	"	Harris, H. G.
	"	"	Ghuznavi, A. H.
150	Mar.	1.	McKay, J. W.
	"	"	Datta, H. N.
	"	"	Basu, N. K.
	"	"	Kramrisch, Stella
	"	"	Bagnall, J. F.
155	April	5.	Ghose, B. C.
	"	"	Bhatia, M. L.
	"	"	Mitter, K. N.
	"	"	Jones, T.
	June	6.	Lemmon, R. D.
160	July	5.	Mukhopadhyaya, P. K.
	"	"	Tyson, J. D.
	"	"	Lyne, H. W.
	Aug.	2.	Mukherjee, J. N.
	"	"	Khettry, B.
165	Nov.	1.	Jameson, T. B.
	"	"	Modi, J. R. K.
	"	"	Westcott, F.
	"	"	Mills, J. P.
	"	"	Galstaun, S.
170	"	"	Bagchi, P. C.
	Dec.	6.	Aiyangar, S. K.
	"	"	Roy, A. K.

1927.

	Jan.	3.	Chakravarty, N.
	"	"	Bivar, H. G. S.
175	Feb.	7.	Chatterjee, A.
	Mar.	7.	Hopkinson, A. J.
	"	"	Bake, A. A.
	"	"	Ghosh, P. N.
	"	"	Abdul Kadir, A. M. F.
180	"	"	Wright, F. M.
	May	2.	Watson, Sir A. H.
	June	6.	Nandi, Maharaja S. C.
	"	"	Jain, B.
	"	"	Sinha, S. P.
185	July	4.	Chatterjee, P. P.
	"	"	Chakravarti, C.
	"	"	Vance, R. L.
	Nov.	7.	Tarkatirtha, B.
	"	"	Mukherji, D.
190	"	"	Brahmachary, S. C.

Dec.	5.	Namgyal, H.H. Sir Tashi
"	"	Dechhen, H.H. Kun- zang
"	"	Chowdhury, Sir C.
"	"	Mukerjee, S. K.

1928.

Jan.	2.	Basu, N. M.	195
"	"	Mello, F. de	
Feb.	6.	Sinha, S. C.	
"	"	Ezra, Sir D.	
"	"	Mukerji, Sir M. N.	
"	"	Williams, T. T.	200
"	"	Shumsher, Sir Kaiser	
Mar.	5.	Waight, H. G.	
"	"	Gooptu, D. N.	
"	"	Neogi, P.	
"	"	Biswas, C. C.	205
"	"	Eberl, Otto	
April	2.	Mullick, K. C.	
"	"	Kumar, K. K.	
"	"	Chowdhury, Rai J. N.	
"	"	Harris, L. E.	210
May	7.	Chatterji, K. N.	
"	"	Chatterjee, Sir N. R.	
"	"	Tucci, G.	
"	"	Murray, E. F. O.	
"	"	Ghosal, U. N.	215
"	"	Saha, M. N.	
June	4.	Bhadra, S. N.	
"	"	Bhattasali, N. K.	
July	2.	Roerich, N.	
Aug.	6.	Jaitly, P. L.	220
"	"	Ghuznavi, I. S. K.	
"	"	Heron, A. M.	
Nov.	5.	Olpadvala, E. S.	
"	"	Statham, R. M.	
"	"	Reinhart, W.	225
"	"	Galstaun, J. C.	

1929.

Jan.	7.	Ghose, M. C.	
Feb.	4.	Narain, Hirde	
"	"	Jenkins, W. A.	
Mar.	4.	De, J. C.	230
"	"	Mullick, P. N.	
April	1.	Ghose, D. P.	
"	"	Rizvi, S. H. H.	
"	"	Sen-Gupta, N. C.	
May	6.	Sharma, S. R.	235
"	"	Williams, H. F. F.	
July	1.	Dunn, J. A.	
Aug.	5.	Sommerfeld, A.	
Nov.	4.	Singh, J.	
"	"	Cotter, G. de P.	240
"	"	Campbell, G. R.	
"	"	Edwards, L. B.	

	Nov.	4.	Siddiqi, M. Z.
245	"	"	Mallya, B. G.
	Dec.	2.	Fawcus, L. R.

1930.

	Jan.	6.	Jain, N. K.
	"	"	Haldar, S. K.
	"	"	Hamilton, Sir D. M.
	"	"	Martin, M. F. C.
250	"	"	Chakraverti, S. C.
	Feb.	3.	Mahtab, U. C.
	"	"	Chakravarti, M. N.
	Mar.	3.	Ashton, H. S.
	May	5.	Deo, Sir P. C. Bhanj
255	"	"	Matthias, O. G.
	"	"	Mallam, G. L.
	"	"	Cooper, G. A. P.
	June	2.	Kenny, D. E. C.
	Nov.	3.	Austin, G. J.
260	"	"	Rahman, S. K.
	"	"	Newman, C. D.
	Dec.	1.	Roy, K. K.

1931.

	Jan.	5.	Chatterji, D.
	"	"	Evans, P.
265	Feb.	2.	Douglas, G. W.
	"	"	Clough, J.
	Mar.	2.	Bose, S. K.
	April	6.	Bhose, J. C.
	May	4.	Bottomley, J. M.
270	June	1.	Lort-Williams, J.
	Aug.	3.	Barua, K. L.

1932.

	Mar.	7.	Hughes, A.
	"	"	Chakraberty, K. B.
	"	"	Darbari, M. D.
275	Nov.	"	Suvarna Shumser
	"	"	Driver, D. C.
	Dec.	5.	Dutt, N.
	"	"	Boyle, C. A.

1933.

	Jan.	2.	George, J.
280	"	"	Dutch, R. A.
	"	"	Singh, R. P.
	Feb.	6.	Wellsted, T. A.
	"	"	Ghatak, J. C.
	"	"	West, W. D.
285	Mar.	6.	Seal, S. C.
	June	5.	Chakravarti, S. K.
	"	"	Rossetti, F. F. L.
	July	3.	Dutt, G. S.

	Aug.	7.	Singh, Raghubir	
	"	"	Vedantatirtha, V.	290
	Nov.	6.	Coulson, A. L.	

1934.

	Jan.	1.	Ahmad, M. J.	
	Feb.	5.	Bhuyan, S. K.	
	"	"	Haldar, B. V.	
	"	"	Kirby, W.	295
	"	"	Law, B. C.	
	"	"	Nariman, R. K.	
	"	"	Pasricha, C. L.	
	"	"	Percival, F. G.	
	"	"	Richter, H.	300
	"	"	Sale, H. M.	
	"	"	Selzam, E. von.	
Mar	5.	Modi, J. J. J.		
	"	"	Singh, H. H. Sir K.	
May	7.	Bent, W. A.		305
June	4.	Chatterji, B. R.		
Aug.	6.	Husain, S. A.		
"	"	Mullick, M. L.		
"	"	Rao, U. S.		
Sep.	3.	Auden, J. B.		310
"	"	Sondhi, V. P.		
Nov.	5.	Gee, E. R.		
"	"	Dey, M.		
Dec.	3.	Burt, B. C.		
"	"	Brahmachari, P. N.		315
"	"	Chatterjee, S. C.		

1935.

	Feb.	4.	Singh, S.	
	"	"	Sarkar, N. R.	
	"	"	Law, P. C.	
	"	"	Lal, R. B.	320
Mar.	4.	Groth, E. M.		
June	3.	Singhania, R. P.		
Aug.	5.	Shattock, J. S. H.		
Sep.	30.	Dutt, M. N.		
"	"	Basu, S. K.		325
"	"	Mitter, S. K.		
Nov.	4.	Bor, N. L.		
"	"	Chaudhuri, S. N.		
"	"	Anna Klebe.		
"	"	Hirtzel, M. A. F.		330

1936.

	Jan.	6.	Brocke, A. G.	
	"	"	Berkely-Hill, O.	
	Feb.	3.	Flury, E. C.	
	"	"	Catto, Lord	
	"	"	Ahmad, A.	335
Mar.	2.	Chatterji, Mrs. T.		
"	"	Chatterjee, M.		
April	6.	White, J. C.		
"	"	Rankin, E. H.		

340	June	1.	Sen, J. M.
	Sep.	7.	Williams, N. T.
	"	"	Singh-Roy, Sir B. P.
	"	"	Ghosh, J.
	"	"	Ram D.
345	"	"	Mandhata, H. C.
	"	"	Gangooly, P. L.
	"	"	Bagchi, K. N.
	Nov.	2.	Bothra, S.
	Dec.	9.	Sen D. N.
350	"	"	Mookerjee, B. G.
	"	"	Mitra, S. C.
	"	"	Gillespie, A. D.
	"	"	Daga, M. G.
	"	"	Bose, A. N.
355	"	"	Basu, I. B.
	"	"	Banerjee, S. M.

1937.

	Jan.	4.	Vedantatirtha, N. C.
	"	"	Ahmad, S.
	April	5.	Sufi, M. E.
360	"	"	Sharaf-ud-Din, S.
	"	"	Sattar, A. H.
	"	"	Sahni, M. R.
	"	"	Roy, D.
	"	"	Mooney, H. F.
365	"	"	Sen, K. M.
	"	"	Asari, J. R.

April	5.	Wolfenden, S. N.	
July	5.	Mozumdar, S.	
"	"	Mukherjee, P.	
Sep.	6.	Halim, A.	370
"	"	Durniz-Podewils, Count	
"	"	Bhattacharya, N. C.	

1938.

Feb.	7.	Chakravarti, P. K.	
"	"	Chatterji, M. D.	
Mar.	7.	Deva, S. K.	375
April	4.	Chaudhuri, Mrs. R.	
"	"	Anderson, J.	
May	2.	Farouqi, K. G. M.	
"	"	Brabourne, Lord	
"	"	Mahtab, Maharaj Kumar, A. C.	380
"	"	Jacob, J. R.	
June	6.	Tressler, G. W.	
"	"	Merens, A.	
"	"	Dudhoria, N. K. S.	
July	4.	Carstairs, A. M.	385
Aug.	1.	Sinha, B.	
"	"	Banerjee, J. N.	
Sep.	5.	Dominguez, B.	
Nov.	1.	Jatia, K. L.	
"	"	Eekhout, Jhr., P. J.	390

LIFE MEMBERS.

(Chronological.)

	5-11-84	C. S. Middlemiss (30 N.).	4-3-14	J. Bacot (14 F.).	
	6-6-88	A. P. Pennell (88 F.).	5-8-14	B. C. Law (33 R.).	30
	11-1-93	Sir Edward D. MacLagan (94 R.).	5-7-16	G. Sircar (29 N.).	
	1-2-93	P. O. Bodding (14 N.).	6-2-18	Johan van Manen (25 R.).	
5	31-7-93	G. P. Tate (23 N.).	3-4-18	B. Prashad (29 R.).	
	27-9-94	W. Vost (94 F.).	2-11-21	S. L. Hora (30 N.).	
	19-9-95	K. C. De (26 R.).	6-6-23	Sir A. Howard (30 N.).	
	5-12-00	J. W. A. Grieve (00 F.).	1-8-23	Kalpada Biswas (36 R.).	35
	6-2-01	J. Ph. Vogel (25 F.).	5-12-23	H. H. Lakshman Sen (24 N.).	
10	2-7-03	F. Doxey (28 R.).	7-5-24	B. Bhattacharya (24 N.).	
	1-6-04	G. H. Tipper (27 N.).	6-8-24	L. M. Davies (24 N.).	
	3-8-04	Sir Lewis L. Fermor (36 N.).	3-12-24	G. Roerich (28 F.).	
	28-9-04	H. E. Stapleton (26 R.).	6-6-27	B. D. Jain (28 R.).	40
	2-8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
15	3-1-06	J. A. Chapinan (28 N.).	5-12-27	H. H. Sir Tashi Nam- gyal (27 N.).	
	19-7-06	R. B. Whitehead (26 N.).	5-12-27	H. H. Kunzang Dech- hen (27 N.).	
	3-7-07	J. Coggin Brown (28 N.).	6-2-28	Sir D. Ezra (28 R.).	
	3-7-07	W. A. K. Christie (29 N.).	6-2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	45
	1-1-08	Sir U. N. Brahma- chari (27 R.).	2-7-28	N. Roerich (28 F.).	
20	7-4-09	C. A. Bentley (30 N.).	5-11-28	W. Reinhart (28 F.).	
	4-5-10	S. B. Dhavle (10 N.).	4-11-29	G. de P. Cotter (32 N.).	
	4-5-10	S. W. Kemp (29 F.).	3-3-30	H. S. Ashton (30 N.).	
	1-2-11	James Insch (28 R.).	5-1-31	P. Evans (31 N.).	50
	7-6-11	M. Hidayat Hosain (27 N.).	7-11-32	Suvarna Shumser Jung Bahadur Rana (32 N.).	
25	5-7-11	R. B. S. Sewell (28 N.).	6-2-33	J. C. Ghatak (33 R.).	
	1-11-11	Kamaluddin Ahmad (24 N.).	5-2-34	H. M. Sale (34 N.).	
	5-3-13	J. L. Simonsen (19 N.).	5-3-34	H. H. Sir K. Singh (34 N.).	

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election	(Science.)
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secrétaire Perpetuel, Académie des Sciences, Paris.
15-1-34	SIR SYDNEY BURREARD, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. SIB SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, KT., c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London.
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhustvej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMRONG RAJANUBHAB OF SIAM, Siam.

ASSOCIATE MEMBERS.

Date of Election	
1-2-22	*PIERRE JOHANNES, REV., S.J., B.LITT. (OXON), <i>Professor of Philosophy</i> . St. Xavier's College, 30, Park Street, Calcutta
1-2-22	*ANANTAKRISHNA SASTRI, MAHAMAHOPADHYAYA, VEDANTA-VISARADA, <i>Lecturer in Sanskrit</i> , Calcutta University. 32, College Square, Calcutta.
2-12-29	† SARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor</i> , 'Man in India'. Church Road, Ranohi.
1-1-34	L. DUGIN, <i>Consulate-General for France</i> , 15, Stephen Court, 18, Park Street, Calcutta.

† Re-elected for a further period of five years on 1-1-1934 under Rule 2c.

* Re-elected for a further period of five years on 5-4-1937 under Rule 2c.

INSTITUTIONAL MEMBERS.

Date of Election.	
28-10-29	The Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland.
2-12-29	The Adyar Library, Adyar, Madras S.
4-5-31	The Benares Hindu University Library, Benares.
1-6-31	The Ohtani University Library, Kyoto, Japan.
7-12-31	The Annamalai University Library, Annamalainagar, Chidambaram, S. India.
30-10-33	The Allahabad University Library, Allahabad.
30-4-34	The Bombay University Library, Bombay.
6-1-36	The Islamia College, Peshawar.
4-5-36	The Patna College, Patna.
7-12-36	President, Forest Research Institute, Dehra Dun.
4-1-37	The Dacca University, Dacca.
7-6-37	The University of Agra, Agra.

ORDINARY FELLOWS.

Date of Election	
2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.SC.
2-2-10	Sir F. D. Ross, KT., C.I.E. PH.D.
7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.
5-2-13	J. Ph. Vogel, PH.D., LITT.D.
5-2-13	S. W. Kemp, B.A., D.SC., F.R.S.
3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.
2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S. (<i>retired</i>).
2-2-16	Sir L. L. Fermor, KT., O.B.E., A.R.S.M., D.SC., F.G.S., M.INST.M.M., F.R.S.
7-2-17	F. H. Gravely, D.SC.
6-2-18	J. L. Sinonsen, D.SC., F.I.C., F.R.S.
6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.
5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.
5-2-19	W. A. K. Christie, B.SC., PH.D., M.INST.M.M.
5-2-19	D. R. Bhandarkar, M.A., PH.D.
5-2-19	R. B. Seymour Sewell, C.I.E., M.A., SC.D., M.R.C.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., I.M.S.
2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F.
1-2-22	Ramaprasad Chandra, B.A.
4-2-25	M. Hidayat Hosain, PH.D.
1-2-26	P. O. Bodding, M.A.
7-2-27	Johan van Manen, C.I.E.
6-2-28	H. E. Stapleton, M.A., D.LITT., B.SC., I.E.S. (<i>retired</i>).
6-2-28	B. Prashad, D.SC., F.Z.S., F.R.S.E.
6-2-28	C. A. Bentley, C.I.E., M.B., D.P.H., D.T.M. & H.
4-2-29	Sir Albert Howard, KT., C.I.E., M.A.
4-2-29	J. H. Hutton, C.I.E., M.A., D.SC., I.C.S.
4-2-29	Sir Edward D. MacLagan, K.C.S.I., K.C.I.E.
3-2-30	G. de P. Cotter, B.A., SC.D., M.INST.M.M., F.G.S.
3-2-30	S. L. Hora, D.SC., F.Z.S., F.R.S.E.
3-2-30	J. P. Mills, I.C.S., M.A., J.P.
3-2-30	Meghnad Saha, D.SC., F.R.S.
2-2-31	S. Krishnaswami Aiyangar, M.A., PH.D., F.R.HIST.S.

	Date of Election	
	2-2-31	R. N. Chopra, C.I.E., M.A., M.B., I.M.S.
	2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).
	1-2-32	J. Bacot.
35	6-2-33	Percy Brown, A.R.C.A.
	6-2-33	Ordhendra Coomar Gangoly, B.A.
	6-2-33	Ghulam Yazdani, M.A.
	5-2-34	D. N. Wadia, M.A., B.Sc., F.R.G.S.
	3-2-36	Suniti Kumar Chatterji, M.A., D.LITT. (LOND.).
40	3-2-36	A. M. Heron, D.Sc. (EDIN.), F.G.S., F.R.G.S., F.R.S.E.
	3-2-36	Habib-ur-Rahman Shirwani.
	15-2-37	K. N. Bahl, D.Sc., D.PHIL.
	15-2-37	K. N. Dikshit, M.A.
	15-2-37	N. N. Law, M.A., B.L., PH.D.
45	15-2-37	J. N. Mukherjee, D.Sc. (LOND.), F.C.S. (LOND.).

HONORARY FELLOWS.

	Date of Election.	
	5-2-96	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.
	2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberley, Surrey, England.
	5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.SC., LL.D., PH.D., F.R.S. Trinity College, Cambridge, England.
	6-12-16	G. A. BOULENGER, F.R.S., LL.D. Jardin Botanique de L'Etat, Brussels.
5	4-2-20	SIR AUREL STEIN, K.C.I.E., PH.D., D.LITT., D.SC., D.O.L., F.R.A. c/o Indian Institute, Oxford, England.
	4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVI ^e .
	4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S.A. Royal College of Surgeons of England. Lincoln's Inn Fields, London, W.C. 2.
	4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.
	4-2-20	SIR DAVID PRAIN, KT., C.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.L.S., F.R.S., F.Z.S., M.R.I.A. Royal Botanic Gardens, Kew, Surrey, England.
10	4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.SC., LL.D., D.C.L., F.R.S., F.R.A.S. St. John's College, Cambridge, England.
	4-2-20	SIR JAMES FRAZER, KT., D.C.L., LL.D., LITT.D. Trinity College, Cambridge.
	4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.
	2-3-21	F. W. THOMAS, C.I.E., M.A., PH.D., <i>Boden Professor of Sanskrit, University of Oxford.</i> 161, Woodstock Road, Oxford, England.
	7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.SC., F.R.S. <i>Principal, University of Edinburgh, Blackford Brae, Edinburgh.</i>
15	7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.
	7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.
	7-3-27	RT. HON'BLE THE EARL OF LYTTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.
	5-5-30	DR. R. ROBINSON, D.SC., F.R.S. The Dyson Perrins Laboratory, South Parks Road, Oxford, England.
	7-2-38	RT. HON'BLE SIR JOHN ANDERSON, P.C., G.C.B., G.C.I.E., <i>Lord Privy Seal.</i> 11, Cheapstow Vilas, London, S.W.

CHANGES IN MEMBERSHIP.

LOSS OF MEMBERS DURING 1938.

BY RETIREMENT.

Ordinary Members.

1. B. Sahni. (1924.)
2. R. Senior-White. (1926.)
3. N. Fukushima. (1927.)
4. C. R. Pawsey. (1929.)
5. Miss K. K. Gupta. (1937.)
6. Lt.-Col. M. Stagg. (1927.)
7. Sir Walter Craddock. (1934.)
8. S. M. Ghosal. (1936.)
9. Rt. Hon'ble Sir John Anderson. (1936.)
10. Syed Asaf Husain. (1936.)
11. Lord Sinha of Raipur. (1928.)
12. Mrs. E. H. Vere-Hodge. (1932.)
13. M. J. Seth. (1897.)
14. R. D. Kavyatirtha. (1933.)
15. Jadu Nath Sinha. (1936.)
16. M. Sayeed-Ud-Din. (1935.)
17. Sailowar Singh Roy. (1935.)
18. Felix Howland. (1935.)
19. K. S. Krishnan. (1934.)
20. Prince Akram Husain. (1934.)
21. Ph. C. Visser. (1932.)
22. Miss Grace Stapleton. (1926.)
23. J. W. Holme. (1932.)
24. Hon. Mr. Justice R. E. Jack. (1935.)
25. M. S. Krishnan. (1933.)
26. J. McPherson. (1924.)
27. Max Staub. (1925.)

BY DEATH.

Ordinary Members.

1. Rai Bahadur Shyam Lal. (1902.)
2. M. E. M. M. Ulser. (1934.)
3. Isan Chandra Mukherjee. (1930.)
4. T. H. D. La Touche. (1889.)
5. Sir Onkar Mull Jatia. (1925.)
6. N. G. Majumdar. (1920.)

Honorary Fellow.

1. Sir T. W. Haig. (1927.)

Associate Member.

1. N. N. Vasu. (1927.)

UNDER RULE 40.

1. Mrs. L. Strickland Anderson. (1922.)
2. Lt.-Col. H. Hingston. (1926.)
3. Major R. S. Wauchope. (1931.)
4. W. Pettigrew. (1930.)
5. Sir S. R. Christophers. (1909.)
6. H. W. Thomas. (1929.)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
1895 Yati Bhusana Bhaduri.
1896 Jnan Saran Chakravarti.
1897 Sarasi Lal Sarkar.
1901 Sarasi Lal Sarkar.
1904 { Sarasi Lal Sarkar.
Surendra Nath Maitra.
1907 Akshoy Kumar Mazumdar.
1911 { Jitendra Nath Rakshit.
Jatindra Mohan Datta.
Rasik Lal Datta.
1913 { Saradakanta Ganguly.
Nagendra Chandra Nag.
Nilratan Dhar.
1918 Bibhutibhushan Dutta.
1919 Jnanendra Chandra Ghosh.
1922 Abani Bhusan Datta.
1923 Bhailal M. Amin.
1926 Bidhu Bhusan Ray.
1927 Kalipada Biswas.
1931 T. C. N. Singh.
1932 P. N. Das-Gupta.
1933 Nirmal Kumar Sen.
1934 D. P. Roy Chowdhury.
1935 Kalipada Biswas.
1937 Pulin Behari Sarkar.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
1903 Sir Ronald Ross, KT., K.C.B., C.I.E., K.C.M.G., M.R.C.S., F.R.C.S.,
D.P.H., LL.D., D.SC., M.D., F.R.S.
1905 D. D. Cunningham, C.I.E., F.R.S.
1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
1909 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
F.L.S., F.Z.S., M.R.I.A., F.R.S.
1911 Carl Diener.
1913 William Glen Liston, C.I.E., M.D., D.P.H.
1915 J. S. Gamble, C.I.E., M.A., F.R.S.
1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
1919 N. Annandale, C.I.E., D.SC., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
1921 Sir Leonard Rogers, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
F.R.S.
1923 Sir Samuel Christophers, KT., C.I.E., O.B.E., F.R.S., F.A.S.B., M.B.,
LT.-COL., I.M.S.

- 1925 J. Stephenson, C.I.E., B.Sc., M.B., CH.B., F.R.S., F.R.C.S., F.R.S.E.,
LT.-COL., I.M.S.
1927 S. W. Kemp, B.A., D.Sc., F.R.S., F.A.S.B.
1929 Sir Albert Howard, KT., C.I.E., M.A., F.A.S.B.
1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S.,
L.B.C.P., F.Z.S., F.L.S., F.R.A.S.B., F.R.S., LT.-COL., I.M.S.
1933 R. Row, O.B.E., D.Sc.
1935 B. Sahni, M.A., SC.D. (CANTAB.), D.Sc., F.G.S., F.R.A.S.B.
1937 R. N. Chopra, C.I.E., M.A., M.D. (CANTAB.), F.R.A.S.B., BT.-COL.,
I.M.S.

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A.
(HON.), F.R.A.S.B., I.C.S. (*retired*).
1930 Dr. Felix H. D'Herelle,
1932 Dr. C. Snouck Hurgronje.
1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A., M.D.,
PH.D., F.S.M.F., F.R.A.S.B.
1937 Prof. Dr. A. J. Wensinck.

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P. F.R.S.
1933 Dr. Eugène Dubois.
1936 Dr. John Henry Hutton, C.I.E., I.C.S. (*retired*), M.A., D.Sc., F.R.A.S.B.

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
1932 Dr. Ernst J. O. Hartert, PH.D.
1935 Prof. Leo Semenowitch Berg.

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
1934 Isaac Henry Burkill, M.A.

INDIAN SCIENCE CONGRESS MEDAL, CALCUTTA.

RECIPIENTS.

- 1935 Meghnad Saha, D.Sc., F.R.S., F.R.A.S.B.
1938 Sir James H. Jeans, D.Sc., SC.D., LL.D., F.I.C., F.R.S.

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1938.

JANUARY.

No Meeting.

FEBRUARY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th, immediately after the termination of the Annual Meeting for the election of Ordinary Members and the transaction of business.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Bhose, Mr. J. C.
Chakravarti, Prof. C.
Chatterji, Dr. S. K.
Chopra, Bt.-Col. R. N.
Ghosal, Dr. U. N.
Hosain, Dr. M. H.
Jenkins, Dr. W. A.

Mahindra, Mr. K. C.
Manen, Mr. Johan van
Mookerjee, Mr. B. G.
Olpadvala, Mr. E. S.
Pasricha, Major C. L.
Singh-Roy, Mr. Saileswar
Wadia, Mr. D. N.

West, Mr. W. D.

The minutes of the last meeting were read and confirmed.

The General Secretary reported that the presentations of books, etc., received during the last month would be exhibited in the next Monthly Meeting.

The following candidates were balloted for for election as Ordinary Members:—

(1) *Chakravarti, Pramatha Kumar*, M.A., B.L., Advocate, High Court, 105, Harish Mukherjee Road, P.O. Kalighat, Calcutta.

Proposer: M. Mahfuz-ul Haq.

Seconder: Suniti Kumar Chatterji.

(2) *Chatterjee, M. D.*, Supervisor, Traffic Branch, Telegraph Master, Government Telegraph Department, Central Telegraph Office, Agra, U.P.

Proposer: M. Hidayat Hosain.

Seconder: Suniti Kumar Chatterji.

(3) *Sukul, Lalita Prasad*, M.A., Visarad, Lecturer in Hindi, University of Calcutta, Post-Graduate Department, The University, Calcutta.

Proposer : Suniti Kumar Chatterji.

Seconder : M. Mahfuz-ul Haq.

In conformity with Rules 2 and 13, the Chairman called for a ballot for the election of—

The Right Hon'ble Sir John Anderson

as an Honorary Fellow of the Society, proposed for election at the last Monthly Meeting.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

(9) S. N. Das (An Ordinary Member, 1924).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(15) John Gladstone (An Ordinary Member, 1934).

(16) Raghunath Dutt (An Ordinary Member, 1936).

(17) Sir Harold Couchman (An Ordinary Member, 1934).

(1) B. Sahni (An Ordinary Member, 1924; Ordinary Fellow, 1927).

(2) R. Senior-White (An Ordinary Member, 1926).

(3) Naoshira Fakushima (An Ordinary Member, 1927).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported that, in accordance with Rule 40, the names of the following Ordinary Members would be removed from the next member list of the Society:—

(1) Miss L. Strickland Anderson (absent since 1931).

(2) Lt.-Col. H. Hingston (" " 1933).

(3) Major R. S. Wauchope (" " 1933).

(4) Rev. W. Pettigrew (" " 1934).

(5) Sir S. R. Christophers (" " 1934).

(6) H. W. Thomas (" " 1934).

The Chairman announced the results of the ballot for the election of Ordinary Members and an Honorary Fellow, and declared that all candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



MARCH.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Ahmad, Mr. S.
Bhose, Mr. J. C.
Brahmachari, Sir U. N.
Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Chatterjee, Mr. P. P.
Deb, Raja K. Rai Mahasai
Driver, Mr. D. C.
Ghose, Mr. J.
Ghose, Mr. T. P.

Ghosal, Dr. U. N.
Haq, Mr. M. Mahfuz-ul
Heron, Dr. A. M.
Hobbs, Mr. H.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Manen, Mr. Johan van
Rahman, Mr. S. K.
Vidyabhusana, Mr. A. C.
Thomas, Dr. F. W.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of nine presentations of books, etc., which had been placed on the table for inspection.

The following candidate was balloted for for election as an Ordinary Member:—

(4) *Deva, Seth Krishen*, General Manager, Nawabganj Sugar Mills Co., Ltd., Nawabganj, Gonda, U.P.

Proposer: A. Sommerfeld.

Seconder: N. Barwell.

The General Secretary reported the following loss of membership, since the last meeting, by death.

1. Rai Bahadur Shyam Lal (An Ordinary Member, 1902).
2. M. E. M. M. Ulser (An Ordinary Member, 1934).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

- (4) C. R. Pawsey (An Ordinary Member, 1929).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The Chairman called upon the General Secretary to read an obituary notice of the late Lord Rutherford of Nelson, written by Dr. J. N. Mukherjee (vide page 152).

The Chairman then introduced Professor Dr. F. W. Thomas, C.I.E., Honorary Fellow of the Society and the late Boden Professor of Sanskrit, University of Oxford, and requested him to address the meeting.

Dr. Thomas then addressed the meeting.

The following exhibit was shown and commented upon:—

1. CHINTAHARAN CHAKRAVARTI.—*Manuscripts of three little-known works of Kamalākara.*

Of Kamalākara Bhaṭṭa, the well-known author of the *Nirṇayasindhu* as well as many other works, the Royal Asiatic Society of Bengal possesses manuscripts of three works, the nature and contents of which do not appear to have so far been clearly indicated, presumably owing to the extreme rarity of MSS. thereof. As a matter of fact, it is the Society that seems to be in possession of the only known MS., though incomplete, of the *Tattvakamalākara* and the *Mīmāṃsā-kutūhala*, two works of Kamalākara on the Mīmāṃsā system of philosophy. The *Mantrakamalākara* of which another MS., scarcely accessible at present, is referred to in the *Catalogus Catalogorum* is a tantric digest. The Society's manuscript of the work is complete in 126 leaves.

The following communication was made:—

1. JOHAN VAN MANEN.—*The study of Heraclitus.*

This Greek philosopher who flourished about 500 B.C., called the obscure, is regarded as the founder of metaphysics. His presumably small and only known work 'On Nature' has been lost. In 1807/08 Schleiermacher made a first attempt to piece together what has survived of the philosopher in quotations and allusions in Greek literature. Since then an appreciable literature has been produced on the subject, predominantly German. The surviving fragments were edited by Bywater in 1877 and later by Diels. In all some 130 fragments, mostly short, have been found. The literature is to be found with great difficulty, as a large part of it consists of papers in learned journals, academical dissertations, rectorial addresses, and school programmes. There are also under a dozen full dress volumes.

The study is of the greatest interest mainly from two points of view. Firstly, that of the intrinsic value of the sayings. Secondly, that of the illuminating lesson afforded by philology grappling with an obscure problem.

The Chairman announced the result of the ballot for the election of the Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



APRIL.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 4th, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Ahmed, Mr. S.
Brown, Mr. Percy
Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Chatterji, Dr. S. K.
Deb, Raja K., Rai Mahasai
Dutt, Mr. M. N.
Fox, Dr. Cyril S.

Hobbs, Mr. H.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Jack. Hon. Mr. Justice R. E.
Manen, Mr. Johan van
Mukherjee, Dr. J. N.
West, Mr. W. D.

Visitor.

Banerjee, Mr. Sudhir Chandra

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of four presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(5) *Sen, Mrs. N. C. (Mrs. Mrinalini Sen)*, Writer of Bengali Poems, 8, Marlin Park, Ballygunge, Calcutta.

Proposer: Sir David Ezra.

Seconder: Johan van Maenen.

(6) *Anderson, James*, Teacher of Shorthand, 15, Park Street, Calcutta.

Proposer: M. Hidayat Hosain.

Seconder: W. D. West.

(7) *Chaudhuri, Mrs. Roma*, Research Fellow, Calcutta University, 3, Federation Street, Calcutta.

Proposer: Bains Prashad.

Seconder: J. N. Mukherjee.

The General Secretary reported the following loss of membership since the previous meeting by death:—

(3) Isan Chandra Mukherjee (An Ordinary Member, 1930).

The General Secretary reported the following loss of membership since the previous meeting, by resignation:—

(5) Miss K. K. Gupta (An Ordinary Member, 1937).

(6) Lt.-Col. M. Stagg (An Ordinary Member, 1927).

The General Secretary reported that the election of—

(1) H. J. Sarawgi (Elected on 6-9-37),

(2) Ramananda Chowdhuri (Elected on 6-12-37),

had become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported the constitution of the various standing Committees of the Society for the year 1938-39 to be as follows:—

Finance Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Dr. Bains Prashad.	
Dr. J. N. Mukherjee.	
Sir U. N. Brahmachari.	
Lt.-Col. N. Barwell.	

Library Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

Publication Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Philological Secretary	
Jt. Philological Secretary	
Biological Secretary	
Physical Science Secretary	
Anthropological Secretary	
Medical Secretary	
Library Secretary	

The following paper was read :—

1. SIDDHESWAR VARMA.—*The Dialects of the Khas-ālī Group.*

An attempt has been made in this article to describe a little-known group of Aryan speeches in Kashmir. The Khas-ālī group of dialects are spoken in a valley which may be called 'the Raggi valley' fed by the stream Raggi and its tributaries. This stream falls into the Chenab at a point about 10 miles west of Dodā (the dialect of which the Sirāji of Dodā has been described in L.S.I., Vol. VIII, part 2) and about 30 miles west of Bhadarwāh town.

The number of speeches of the dialects of the Khas-ālī group. General characteristic features. Pronunciation. The absence of mixed vowels. Significant nasality. Various 'gradations' of nasalization in the dialects. Shibboleths in the

vocabulary to distinguish these dialects from Bhadarwāhī. Grammar. Classification of the Khas-āli group into five dialects. Inter-relations between the dialects of the Khas-āli group. Vocabulary.

The following exhibits were shown and commented upon:—

1. S. L. HORA.—*Aerial vision in fishes.*

Fish, as a rule, live under water. Their sight, which is adapted for aquatic vision, though keen, is, owing to the general haziness of the water, very much more limited in range than that of any land vertebrate.

The sense of sight plays a very important part in the search for food, and presumably under the same urge a few fishes have developed a sharp and relatively long-ranged aerial vision.

Illustrations of four such types of fishes were exhibited.

Periophthalmus, the Goggle-eyed fish or the Mud-skipper, is common on the coasts and estuaries of West Africa, and the countries bordering the Indo-Pacific Ocean. It crawls or skips about on the shore and only rarely lives in water.

Andamia, the Rock-skipper, is common in the Andamans and certain other islands of the Indo-Pacific region. It lives just beyond the surf-line on wet rocks and rarely goes under water.

Mugil corsula, a Freshwater Gray-Mullet, is found in the large rivers and connected waters of Northern India. Though it lives in water all the time, the eyes and a portion of the head are kept out of water when the fish is swimming.

Anableps, the so-called Four-eyed fish, is an inhabitant of Southern Mexico. It has only two eyes, but the upper half of each is kept out of water. Thus each eye subserves both aquatic and aerial vision.

Mr. W. D. West enquired whether *Anableps* had two distinct retina or only one.

Dr. Hora replied that the retina was continuous in the fish, but the water axis and air axis strike the retina at different places.

Dr. C. S. Fox enquired whether the fish can see in air and in water at the same time.

Dr. Hora replied in the affirmative.

2. C. S. FOX.—*The Rangala Meteorite.*

At about 10 A.M. on the 29th December, 1937, a large meteorite fell near Rangala ($25^{\circ} 22' 30'' : 72^{\circ} 0' 15''$) about 32 miles north-north-west of Marwar Bhinmal railway station ($25^{\circ} 1' : 72^{\circ} 16'$) in Jodhpur State, Rajputana. It is reported to have fallen as one piece which broke in fragments on impact with the ground and made a crater one and a half feet in diameter and over a foot deep. Only two moderately large and several small fragments have so far been secured by the Chief Minister, Government of Jodhpur. He has very kindly forwarded these to the Geological Survey of India, and is endeavouring to procure

more from the village people who had collected specimens after the fall.

The noise of the meteorite appears to have been heard at Bhinmal from the direction of Bagora, which is on the way to Rangala, and this may refer to the actual impact. The same evidence was forthcoming when enquiries were made at Bagora where it was stated that a noise was heard of the arrival of a celestial body which came to earth with terrific force near Rangala. The villagers of Rangala were frightened by the meteorite which they thought to be a bomb from an aeroplane. They stated that it arrived with great speed and crashed and broke into hundreds of pieces and made a hole four feet deep.

The two larger pieces exhibited weigh 1,670.32 grams and 572 grams respectively, the total weight of the material so far obtained is 2,318.34 grams. The material is being studied by Dr. J. A. Dunn, and is a stone meteorite which he tentatively classifies as a 'white chondrite', containing olivine, enstatite, nickel-iron and the iron sulphide troilite. A few patches of thin fused crust have been preserved on the broken specimens received. It is interesting to note that there is a decided concentration of metallic minerals in this crust. Thin veins of similar mineral matter penetrate the meteorite.

Dr. Fox said that it was difficult to believe that the mass, of which these two fragments are a part and which fell near Rangala village in Jodhpur on the morning of the 29th December, 1937, was travelling millions of miles away a little before them. Meteorites supply evidence of the most solid of the universe beyond our world. They are seen to come through the air, their impact on landing heard and then the projectile itself found in and around the crater it had made. The internal structure and many of the compounds present in both stony and iron meteorites are distinctive and different to the texture and minerals present in the rocks of the earth accessible to us, and it is certain they were not ejected from any volcano on the earth. Nor it is possible that meteorites come from the moon or the sun. The reasons against the former are that volcanic activity has long ceased on our satellite, while the arguments against a solar origin are that no meteorite could start solid from the sun where the temperature is at least 6,000 c. It has been suggested that just as meteors and meteoric showers represent what remains of original comets which have broken up and disappeared, so meteorites are fragments from those broken up comets. It is significant, however, that it is only very occasionally that a meteoric shower is seen at the time of a falling meteorite, but even this statement needs qualification because it is certain that very few of the meteorites that fall on the earth are seen to fall. There is general agreement that meteorites come from beyond the earth's atmosphere, but it is not certain that meteorites come from beyond the limits of the solar system.

The two fragments of the Rangala meteorite show it to belong to the class of stony meteorites. It contains some nickel-iron but not enough to be referred to as a strong-iron meteorite. Some meteorites, e.g. the Samelia meteorite, Shahpura (also in Rajputana) which fell in the evening of the 20th May, 1921, are composed almost entirely of nickel-iron and are called iron meteorites. The last 100 recorded meteorites (between 1933-37) show that 24 were seen to fall and 76 were found. Of the 24 seen to fall, 17 were stone meteorites and 5 were iron meteorites, the remaining 2 were stony-iron meteorites. It is of interest that 900

meteorites are estimated to fall on the earth annually and perhaps 200 of them only fall on the land frequently in inhabited areas and half of them at night and never found. Of those falling in the day perhaps at the most 5 may be recovered. Stony meteorites rapidly become recognizable if they have been long and attired by weathering. Iron meteorites can be recognized by polishing and etching if they show the Widmanstätten figures. Although this Rangala meteorite was probably under 100 lbs. in weight and we have secured under 5 lbs. in the fragments, kindly sent by the Director, Geological Survey of India, by the Chief Minister of the Jodhpur Government, many are of immense size. The meteor crater in Canyon Diables, Arizona, which is believed to have been made by a gigantic iron meteorite, measures 4,250 feet in diameter and 575 feet deep now although the fall probably occurred long before the discovery of America. The craters of the Great Siberian meteorite which was seen to fall in 1908 were finally located in 1928 but the meteorite matter has not evidently been found by the Soviet explorers, who are still engaged in the search.

The Hon'ble Mr. Justice *R. E. Jack*, Kt., asked 'what is the temperature of a meteorite when it reaches the earth'?

Dr. *Fox* replied that it was a question difficult to answer because so few meteorites have been picked up quick enough after impact. However, stony meteorites are usually recorded as being 'milk warm' when dug up or picked out after a fall. Iron meteorites are known to be hot and can just be handled. In both these cases, the specific heats of the substances involved fully explains the differences. Metals being good conductors quickly get hot through and through. In travelling through the atmosphere resistance wears away the meteorite and accounts for the curious pitted surfaces. In the case of stone meteorites the surface may glow with heat but as this surface is as rapidly rubbed off and the stone travels fast there is insufficient time for the stone to become hot through and through owing to the poor heat conductivity of the stony matter. In the case of a meteorite from Wisconsin the record says that it was picked up with post. Resistance by the air is probably one of the reasons why some meteorites break up and arrive as a 'Swarm', this would lessen the rate of travel and also reduce their heating up.

Mr. *Harry Hobbs* asked whether precious stones, diamonds and emeralds were found in meteorites.

Dr. *Fox* replied that diamonds of small size had been found in stony meteorites in Russia and in iron meteorites fragments from Canyon Diables, Arizona, U.S.A. In the latter area when large quantities of iron meteorite material is said to occur diamonds should be common but their size makes them merely of scientific interest.

(After the lecture Mr. *Hobbs* told Dr. *Fox* of a large emerald which was said to have fallen as a meteorite in the Andamans. Dr. *Fox* said that such a meteorite would be rare and improbable.)

Dr. *S. K. Chatterji* asked whether these meteorites contain elements not found on earth.

Dr. *Fox* replied that no elements have been found in meteorites which are not known in the earth. Some minerals occur in meteorites which are not known under normal terrestrial conditions.

Mr. *Percy Brown* asked after the lecture whether it was possible to see the trail of a meteorite as it gradually so-to speak disappears in a dust cloud, as he distinctly saw such a phenomenon several years ago in London.

Dr. *Fox* replied that the 'smoke trails' of meteorites are well-known, some of the dust trails being several miles long, and are evidence of the immense wearing away of the meteorite as it races through the air. Mr. *Percy Brown* appears to have made a correct deduction of the phenomenon he saw,—that it was a meteorite in actual dissipation.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

MAY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 2nd, at 5-30 P.M.

PRESENT.

LT.-COL. N. BARWELL, M.C., M.A., Barrister-at-Law, Vice-President, in the Chair.

Members :

Ahmed, Mr. S.
Bhose, Mr. J. C.
Brahmachari, Sir U. N.
Brown, Mr. Percy
Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Chakravarty, Mr. K.
Deb, Raja K. Rai Mahasai
Dugin, Mr. L. S.

Dutt, Mr. M. N.
Fox, Dr. Cyril S.
Ghosal, Dr. U. N.
Hosain, Dr. M. H.
Jack, Hon. Mr. Justice R. E.
Manen, Mr. Johan van
Neogi, Dr. P.
Ray, Dr. H. C.
West, Mr. W. D.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(8) *Mahtab, A. C., Maharaj Kumar of Burdwan*, Zemindar, Bijay Manzil, 2, Judges Court Road, Alipore, Calcutta.

Proposer: Sir David Ezra.

Seconder: Johan van Manen.

(9) *Brabourne, His Excellency The Right Hon'ble Lord*, G.C.S.I., G.C.I.E., M.C., Governor of Bengal, Government House, Calcutta.

Proposer: Sir David Ezra.

Seconder: Johan van Manen.

(10) *Jacob, Jacob Ruben*, Director, Messrs. B. N. Alias & Co., Merchant and landholder, Norton Building, Old Court House Corner, Calcutta.

Proposer: Sir David Ezra.

Seconder: Johan van Manen.

(11) *Faroqui, Nawab Sir Mohiuddin*, Kt., of Ratanpur, Zemindar, 20/1, Store Road, Ballygunge, Calcutta; Faroqui House, Comilla.

Proposer: Sir Upendranath Brahmachari.

Seconder: Johan van Manen.

The General Secretary gave notice of the following motion, proposed by Dr. S. L. Hora and seconded by Dr. B. N. Chopra:—

'It has been noticed for some time that "tea" is served to members and their guests attending Ordinary Monthly Meetings of the Society at the cost of the Society before the commencement of the meetings, but no notice of this arrangement has yet been given to the general body of members. While approving the arrangement for "tea", it is hereby resolved that notice of this arrangement should be given to all members by having this fact printed at the bottom of the agenda of every Ordinary Monthly Meeting in bold letters as is usually done in the case of all the learned Societies both in Europe and America where similar arrangements for "tea" exist.'

The General Secretary reported receipt of news of the death of the following, since the last Ordinary Monthly Meeting:—

(4) T. H. D. La Touche (An Ordinary Member, 1889; An Ordinary Fellow, 1910).

(5) Sir T. W. Haig (An Honorary Fellow, 1927).

The General Secretary reported the following loss of memberships, since the previous meeting, by resignation:—

(7) Sir Walter Craddock (An Ordinary Member, 1934).

(8) Dr. S. M. Ghosal (An Ordinary Member, 1936).

The General Secretary reported the following loss of membership, since the previous meeting, by retirement from India:—

(1) The Hon'ble Sir John Anderson (An Ordinary Member, 1936)

The General Secretary reported that there had been no lapses of election, since previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following papers were read:—

1. M. B. EMENEAU —*Kinship and Marriage among the Coorgs.*

In this paper the author gives a description of the marriage rites and the kinship system of those Coorgs who live in the central portion of the province of Coorg, i.e. in Mercara and Virajpet, the district between these two towns, and in Nalknad to the west.

The Coorgs are an endogamous community of about 40,000 people who form approximately a quarter of the population of the province of Coorg, in the mountains of western South India between the Mysore State and British Malabar. They were originally the warrior owners of this tract and formed, and still form, the highest community in the social scale there (barring the few Brahmans who live in the province). It is doubtful how far they can be considered a caste in any strict Indian sense of the word, for they resolutely refuse to accept the ministrations of the Brahmans in any of their rites. No accurate ethnological account of these people has yet appeared.

2. N. L. BOR.—*Yano Dafia Grammar and Vocabulary.*

An attempt has been made in this article to describe a little-known dialect spoken by one of the hill tribes in Assam, known as the Daffas. The Daffas inhabit the foothills of the Himalayas in Assam between the Bhorelli and the Khru rivers. As far as is known they live also northwards to the foot of the lofty snowcovered mountains known as the Se La range.

The alphabet. Consonants. Vowels. Nouns. Number. Case. Adjectives. Pronouns. Verbs. Compound verbs. Participle. Interrogatives. The usages of these are exemplified by illustrative sentences.

The grammar is in the Yano dialect which is very different when spoken from the Tagen. A vocabulary is supplied in both the dialects. Difference in pronunciation and in the words between the Yano and the Tagen is noticed. A comparative list of Miri, Apa Tanang, and Dafia words is also given.

3. S. N. CHAKRAVARTI.—*Development of the Bengali Alphabet from the Fifth Century A.D. to the end of the Mohammedan Rule.*

In this article a systematic palæographic study of the development of the Bengali alphabet is attempted. The Bengali alphabet itself was but a later local development from the Brāhmī Lipi which is undoubtedly the earliest syllabic alphabet of India, of which certain ancient prototypes can be traced in the pictographic writing of the Indus valley. The Brāhmī indeed is the parent script from which all the alphabets now used in India, Ceylon, Burma, Tibet, and Siam, have gradually developed. Although the writing was prevalent in India as early as the 8th or 7th century B.C., the inscriptions of Aśōka are still the first set of historical records in which the Brāhmī alphabet has been extensively used for almost the whole of India excluding no other region than that of Gandhāra in the extreme north-west. The forms of the Brāhmī letters in the Aśōkan records show a somewhat advanced stage of development. For a cruder form of those letters one has still to refer to the Piprahwa Vase Inscription found in the Nepal Terai. The Brāhmī alphabet developed through the ages of the Mauryas, the Śuṅgas and the Kshatrapas of Northern and Western India till by the time of the Kushāṇas it became divided into two distinct varieties, an Eastern and a Western. This paper deals with the Eastern variety only. The author has also attempted to solve the origin of the Indian system of notation.

Chapter I. Introductory—(a) Gupta age: the point of departure; (b) The conflict of varieties: Eastern alphabet and Western.

Chapter II. Evolution of the Eastern Alphabet: Birth of Proto-Bengali.

Chapter III. Growth of Bengali (a) Vowels, (b) Consonants.
Appendix and Plates.

After the reading of the papers, the following communication was made :—

1. M. HIDAYAT HOSAIN.—*A Flying Machine in the 9th Century A.D.*

Abul Qāsim 'Abbās bin Firnās who died A.D. 888, had invented a flying machine, a description of which is given by Al-Maqqari, died A.D. 1632, a reliable historian. 'Abbās bin Firnās attached a couple of wings to his body and getting on an eminence flew to a considerable distance but while alighting again on the place whence he had started he was hurt. The first attempt was not crowned with success but it appears from the account of Mumin bin Sa'id, a contemporary poet, that the scientist was successful as an aviator and flew to great distances at a considerable speed. Among his other inventions worth mention are glass, and an instrument called *Minqālah* similar to the *metronome* by which time was marked in music without having recourse to notes and figures.

Mr. Jyotish Ch. Bhose remarked that there is a mention of some sort of flying machine in the old books of every country. But such mention is merely poetic fancy. If there had been any real truth about the flying machine, the books would have mentioned places where these machines were built or repaired and also the names of the mechanics or engineers.

Dr. P. Neogi said that after the lapse of 800 years between the time of Abdul Qāsim 'Abbās bin Firnās and that of Al-Maqqari, the historian who recorded the flying achievement of the former shows the mythical or hearsay origin of the story of flying. In India there is graphic description of the 'pushpak-ratha' in which Ramachandra brought Sita to Ayodhya after slaying Ravana, King of Ceylon, but the story is regarded as mythological. There is no historical basis of these ancient stories about flying. In every country and its literature descriptions of such flying attempts does exist, but either these are poetic fictions or hearsay stories.

Dr. Neogi further remarked that glass was discussed much earlier, and its discovery could not be attributed to this author.

Dr. U. N. Ghosal pointed out in the course of the discussion that it could not be a machine as no description whatever of the so-called machine is available.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

JUNE.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th, at 5-30 P.M.

PRESENT.

LT.-COL. N. BARWELL, M.C., M.A., Barrister-at-Law, Vice-President, in the Chair.

Members :

Bhose, Mr. J. C.	Hobbs, Mr. H.
Brahmachari, Dr. P.	Hora, Dr. S. L.
Brahmachari, Rai Bahadur S. C.	Hosain, Dr. M. H.
Brahmachari, Sir U. N.	Ghosal, Dr. U. N.
Brown, Mr. Percy	Manen, Mr. Johan van
Chakravarti, Prof. C.	Mookerjee, Mr. B. G.
Chopra, Dr. B. N.	Mukherjee, Rai Bahadur P. L.
Deb, Raja K., Rai Mahasaj	Sen, Mr. D. N.
Haq, Prof. M. Mahfuz-ul	Sircar, Mr. Ganapati

Visitor :

Rao, Dr. H. Srinivasa

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(12) *Dudhoria, Naba Kumar Sing*, Zemindar and Banker, Azimgunj, Dist. Murshidabad.

Proposer: M. Hidayat Hosain.

Seconder: J. N. Mukherjee.

(13) *Tressler, Clement Weble*, M.A. (Allahabad), Senior Professor of History and Political Science, Murray College, Sialkot, Punjab.

Proposer: N. Barwell.

Seconder: M. Mahfuz-ul Haq.

(14) *Marens, Allard*, Netherlands Consul-General, c/o Netherlands Consulate General, E-1, Clive Buildings, Clive Street, Calcutta.

Proposer: Johan van Manen.

Seconder: N. Barwell.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(10) Syed Asaf Husain (An Ordinary Member, 1936).

(11) Lord Sinha of Raipur (An Ordinary Member, 1928).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rules 55*d* and 57*d*, the Chairman announced that the motion of Dr. S. L. Hora regarding the Ordinary Monthly Meeting Tea, which was announced in the last Monthly Meeting in May for disposal at to-day's meeting, would now be submitted for consideration.

The Chairman called upon Dr. Hora to move the motion standing in his name.

The mover intimated that he wished to call attention to the omission to send out any notices of the motion to non-resident members and desired a ruling as to whether such notices ought not to go to the general body of members. He relied on Rules 55, clause *d*, 64, clause *b*.

The following notice was issued to the Resident Members of the Society:—

In April Dr. S. L. Hora suggested to the Council that in the meeting notices of the Ordinary Monthly Meetings of the Society a conspicuous notice should be inserted of the fact that, in a separate room, prior to the meeting, tea is provided to those attending. The Council have considered the suggestion in their meeting held on April, the 25th. It was decided that no action is necessary in the matter.

This resolution was communicated to Dr. S. L. Hora who thereupon submitted the following motion for submission to the Ordinary Monthly Meeting, in accordance with the provisions of Rules 55*d* and 57*d*. Notice of this intended motion has been given in the Ordinary Monthly Meeting held on May, the 2nd, and the motion is now entered in the agenda of the present meeting for disposal. The motion has been seconded by Dr. B. N. Chopra.

MOTION.

It has been noticed for some time that 'tea' is served to members and their guests attending the Ordinary Monthly Meetings of the Society at the cost of the Society before the commencement of the meetings, but no notice of this arrangement has yet been given to the general body of members. While approving the arrangement for 'tea', it is hereby resolved that notice of this arrangement should be given to all members by having this fact printed at the bottom of the agenda of every Ordinary Monthly Meeting in bold letters as is usually done in the case of all the learned Societies both in Europe and America where similar arrangements for 'tea' exist.

The Chairman invited any member to address him for his guidance.

Several members spoke.

The General Secretary informed the meeting that notices of Ordinary Monthly Meetings according to immemorial practice were only issued to resident members.

Sir Upendra Nath Brahmachari pointed out that notices of importance of which notice was given at one meeting had by rule to be disposed of at the next. It would then be impossible in the time prescribed to give timely notice to members abroad.

The Chairman ruled that the practice followed in this matter was consistent with both rules and practice, and had therefore to be deemed in order, and that the object of the first part of the rule was to advertise the nature of the motion in a General Meeting but not otherwise.

Dr. Hora next addressed the meeting on the merits of the motion and observed that the Chairman of the previous General Meeting had accepted the motion.

The Chairman pointed out that he himself had been the Chairman of the previous meeting and that all that had been done at that meeting relating to this matter was to register the notice of motion. The merits had not been gone into and, as the minutes just now confirmed showed, nothing more was recorded than the notice itself which inevitably included the terms of the motion. It was the present meeting upon which developed the duty of disposing of the motion.

Prof. Mahfuz-ul Haq raised a point of order and asked for a ruling as to whether the motion was a matter of importance within the meaning of Rule 55*d*.

The Chairman asked the proposer to indicate the importance of his motion.

Dr. Hora complied.

The Chairman asked whether anybody else desired to address him on this problem, and on no one offering any further remarks, the Chairman ruled that Rule 55*d* contemplated a subject of some gravity and of general concern. He could not regard a question as whether an advertisement of such a matter as tea being served by printing that advertisement at the bottom of the meeting notices came within the category.

Mr. Hobbs addressed the meeting suggesting that the whole thing was a storm in a tea cup and not a subject about which much time should be spent.

The Chairman observed that it seemed fairly evident that the sense of the meeting was to get on with the reading of the papers and the other purposes for which the Monthly Meeting had been called.

Dr. Hora wished to know whether his motion was now open for discussion.

The Chairman replied that after his ruling as to the meaning of the expression 'a matter of importance' in Rule 55*d* he felt it should not be further discussed and suggested that Dr. Hora should not press it.

Dr. Hora desired to raise other matters concerning the interpretation of the rules.

Mr. Hobbs and Sir U. N. Brahmachari—several members concurring—asked Dr. Hora to drop the matter altogether.

Dr. Hora not consenting, the Chairman gave as his opinion that in view of the first half of Rule 55*d* the whole motion as not being of importance did not seem to be of a nature as contemplated by this Rule. It seemed to him that this was a matter which the Rule, read as a whole, contemplated being left to the governing body of the Society.

Dr. Hora then withdrew from the meeting.

The Chairman next stated that in view of the wording of the second half of Rule 55*d*, there was room for the suggestion that a motion, important or otherwise, once upon the agenda should be disposed of on its merits. Accordingly he would ask if the seconder of Dr. Hora's motion was present and it was thereupon determined that the seconder, Dr. Chopra, had also left the meeting.

The Chairman asked if anyone would support the motion and, on no one offering to do so, asked if there were any dissentients to the motion.

Upon several members answering in the affirmative the Chairman formally put the motion to the vote from the Chair, the result of the voting being declared to be as follows:—

For	..	..	Nil.
Abstentions		..	Nil.
Against	..	..	16.

The following papers were read:—

1. C. C. DAS GUPTA.—*A Type of Sedentary Game prevalent in the United Provinces of Agra and Oudh.*

In this paper, the author describes a type of sedentary game called *Kaua-dorki*, the details of which were collected by him in last January at Kosam, a village situated in the district of Allahabad in the United Provinces of Agra and Oudh.

2. MISS MARY CHANDY.—*The Histology and Physiology of the Intestine and Hepato-pancreas of two Isopods, Ligia exotica Roux and Armadillio elevatus Verhoeff.*

The histology of the digestive organs of Isopods has engaged the attention of several well-known zoologists. They have made valuable contributions towards the elucidation of the problems

of secretion, digestion and absorption in the alimentary tract. But in the light of recent advances in Cytology many points still remain to be elucidated, especially the secretory phenomena in the glandular cells of the hepato-pancreas. In this paper the author has dealt with this aspect of the problem and has made a study of the cells in the living condition of two specimens of Isopods, *Ligia exotica* Roux and *Armadillio elevatus* Verhoeff, the former being a common brackish water form of the Cooum River, Madras, and the latter a purely terrestrial form living under stones or decaying vegetable matter and feeding on organic debris. The paper has been illustrated by 8 text-figures.

(The authors of the papers not being present, the papers were taken as read.)

In view of the late hours the Chairman decided to postpone the exhibit of Prof. Mahfuz-ul Haq and the communication of Prof. Chintaharan Chakravarti to the next meeting.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had as yet been arranged to be held during the current month.



JULY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 4th, at 5-30 P.M.

PRESENT.

LT.-COL. N. BARWELL, M.C., M.A., Barrister-at-Law, Vice-President, in the Chair.

Members :

Agharkar, Dr. S. P.

Ahmed, Mr. S.

Brahmachari, Dr. P. N.

Brahmachari, Sir U. N.

Chakravarti, Prof. C.

Chakravarti, Mr. P. K.

Chopra, Dr. B. N.

Deb, Raja K., Rai Mahasai

Dugin, Mr. L. S.

Haq, Mr. M. Mahfuz-ul

Hobbs, Mr. H.

Hora, Dr. S. L.

Hosain, Dr. M. H.

Manen, Mr. Johan van

Mukherjee, Dr. J. N.

Prashad, Dr. Baini

Sircar, Mr. Ganapati

West, Mr. W. D.

and others.

The minutes of the last meeting were read and confirmed.

Dr. S. L. Hora raised an objection against the confirmation of the minutes as not being accurate.

After the hearing of the objection to the confirmation of the minutes, the Chairman put the confirmation to the vote.

Result of the vote:

2 against (the mover and seconder of a motion rejected in the previous meeting).

5 abstentions (members not having been present in the previous meeting).

18 for.

The minutes were declared duly confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been kept on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(15) *Carstairs, Andrew McLaren*, M.A., Bengal Chamber of Commerce, 9, Rawdon Street, Calcutta.

Proposer: Percy Brown.

Secunder: K. Biswas.

(16) *Mozumdar, Suprabhat*, M.A. (Cal.), Rajkumar College, Raipur, C.P.

Proposer: P. Acharya.

Secunder: Johan van Manen.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(12) Mrs. E. H. Vere-Hodge (An Ordinary Member, 1932).

(13) Mesrobian Jacob Seth (An Ordinary Member, 1897).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following papers were read:—

1. CHINTAHARAN CHAKRAVARTI.—*Kāśinātha Bhaṭṭa and his works.*

A fairly large number of small treatises, principally on Purāṇa or Tantra topics, ascribed to one Kāśinātha Bhaṭṭa Bhaṭṭa of Benares, *alias* Śivānandanātha, are available in manuscripts in different parts of India. But very few of these works have been brought to the notice of scholars either through descriptive notes or through print. Little again is known about the author. So an attempt has been made to collect an account of these works as well as of the author so far as could be gathered from a survey of them, mainly on the basis of the manuscripts of

a large number of Kāśinātha's little-known works, belonging to the Royal Asiatic Society of Bengal.

2. R. GRACE LEWISON.—*Folk-Lore of the Assamese.*

A collection of 39 Folk stories, in English translation, collected during the author's ten years' residence in Assam. Narrator's name given in each case. The stories are classified as historical, moral and amusing.

The following exhibits were shown and commented upon :—

1. M. MAHFUZ-UL HAQ.—*A note on a Persian Manuscript of Ṣaḥā'if-i-Sharā'if of Muḥammad 'Askari al-Ḥusaini of Bilgrām.*

The manuscript, which comprises the biographical sketches of the Persian prose-writers of India and Irān, has recently been acquired by the Royal Asiatic Society of Bengal.

The manuscript is apparently unique as no other copy is known to exist in any well-known library. A feature of the manuscript is that it is the author's autograph copy.

The author, Saiyyid Muḥammad 'Askari bin Saiyyid Khurshīd 'Ali, was born at Bilgrām. He was a talented Persian scholar and poet of his age. He composed the Ṣaḥā'if in 1213 A.H. (1815-16 A.D.). It contains valuable data regarding the Persian prose-writers in general and the contemporary Indian writers in particular. There are several interesting specimens of the compositions of the Mughal kings, princes and princesses.

2. CHINTAHARAN CHAKRAVARTI.—*Manuscript of a hitherto-unknown work of the Pārānanda School.*

The only work so far known expounding the doctrines and practices of the little-known but highly catholic Pārānanda School of Tantric worship, which puts a taboo on ritualistic details as also on animal sacrifice, which apparently is an essential feature of Sakti-worship, appears to be the *Pārānanda Sūtra*, published in the Gaekwad's Oriental Series (Volume LVI, Baroda, 1931). The Royal Asiatic Society of Bengal possesses a fragmentary manuscript of a small work, called the *Paramā-nandamatasamgraha*. It gives a brief account of the school. While the printed text, which is diffuse, is at times obscure, the present work, though of small extent, is clear and systematic.

3. BAINI PRASHAD.—*Habitat Group of the Goggle-eyed Fish or Mud-skipper Periophthalmodon schlosseri (Pallas).*

Gobies of the genera *Periophthalmodon* and *Periophthalmus* represent, in their habits, two of the most terrestrial types among fishes. They frequent the sea shores and estuarine mud-flats of the Indo-Pacific Region, and are sometimes found considerably above the water level, on aerial roots of plants and other objects that may be present in their habitat.

The mud-skippers breathe atmospheric air direct, and their skin is especially modified for conserving moisture. Their eyes are well adapted for a sharp aerial vision, and they use their highly muscular pectoral fins for locomotion on land. They feed on small animals that are left stranded on the mud-flats by the receding tides.

The exhibit shows a portion of the foreshore of Matlah at Port Canning. The dwarf Sundari shrubs (*Avicennia officinalis* L.) with their aerial roots form a characteristic feature of the habitat. The other noteworthy inhabitants of the mud-flats or of the associated saline pools are the Crabs, *Varuna litterata* (Fabricius) and *Gelasimus annulipes* Latreille and molluscs of the family Cerithiidae.

Dr. J. N. Mukherjee asked whether these air-breathing roots are generally associated with trees characteristic with soil conditions obtaining in such regions.

Dr. S. P. Agharkar replied that pneumatophores (breathing roots) are generally found on plants growing in soil which is waterlogged and saline.

Mr. W. D. West asked whether these fish now adapted to air-breathing could live in the water.

Dr. Bains Prasad replied that the fish adapted to air-breathing can live in water for some time, but are not able to lead an entirely aquatic life.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

AUGUST.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 1st, at 5-30 P.M.

PRESENT.

A. M. HERON, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Vice-President, in the Chair.

Members :

Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Chopra, Bt.-Col. R. N.
Dugin, Mr. L. S.
Ghosal, Dr. U. N.
Groth, Mr. E. M.
Haq, Mr. M. Mahfuz-ul

Hosain, Dr. M. Hidayat
Mahtab, Maharajkumar A. C.
Manen, Mr. Johan van
Pasricha, Major C. L.
Rahman, Mr. S. K.
Singh-Roy, Mr. S.

Visitor :

Dominguez, Signor B.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of eight presentations of books, etc., which had been placed on the table for inspection.

The following candidates were balloted for for election as Ordinary Members:—

(17) *Sinha, Binoyendra Narayan*, B.A., Landholder, Scholar, 4, Hastings Part Street, Alipur, Calcutta.

Proposer: P. C. Bagchi.

Seconder: H. C. Chakladar.

(18) *Banerjea, Jitendra Nath*, M.A., Lecturer, Calcutta University, 28, Manoharpukur Road, Kalighat, Calcutta.

Proposer: P. C. Bagchi.

Seconder: H. C. Chakladar.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(14) Pt. R. D. Kavyatirtha (An Ordinary Member, 1933).

(15) Jadunath Sinha (An Ordinary Member, 1937).

The General Secretary reported that the election of—

(1) Lalita Prasad Sukul (Elected on 7-2-38),

had become null and void, under Rule 9.

The General Secretary reported that—

(1) Mrs. N. C. Sen (Elected on 4-4-38),

had withdrawn her application for membership.

The following paper was read:—

1. P. O. BODDING.—*How the Santals live.*

This paper contains a mass of new materials on the everyday life of the Santals by one who has spent a life time in their midst and has an intimate knowledge of every aspect of their life.

Synopsis: Introductory. The Santal village. Santal agriculture. Different forms of cereals prepared. Serving of food. Cultivated vegetables. Culinary and other oils. Leaves and plants. Mushrooms. Resins. Fruits. Fowls and birds. Animals eaten. Catching and treatment of animals. Milk. Forbidden fruits. Crustaceans and molluscs allowed. Honey. Fish. Fishing. Smoking and drinking. Clothing.

The following exhibit were shown and commented upon:—

1. CHINTAHARAN CHAKRAVARTI.—*A Manuscript of a little known Work on the Rādhāvallabhī School, belonging to the Royal Asiatic Society of Bengal.*

The work, which is a commentary on the *Vedāntasūtra*, by Mahārāja Viśvanātha Siṃha (19th century), eldest son of the lord of Bāndhava, Mahārājādhirāja Jayasiṃha, and author of several works dealing with the greatness and divinity of Rāma, professes to follow and elucidate the views of the Rādhāvallabhī School of the Vaiṣṇavas. This School, according to the commentator, combines the worship of Rādhā with that of Rāma and is older than Harivaṃśa Gosvāmin who seems to be represented here as the founder of a section of the School and not of the School itself, as he is generally supposed to be. The commentary, which is styled *Rādhāvallabhīyamata-prakāśa-bhāṣya* (the commentary that elucidates the views of the Rādhāvallabhīya School), was composed, it is stated, to give an exposition of the true nature of Rāmacandra—identified with the Supreme Being—who can be known and realized only through devotion or rather through the worship of Rādhā who constitutes a typical personification of this devotion. The work is not mentioned by Wilson, Grouse and Grierson, all of whom have given accounts of the School and its literature. One manuscript of it has been referred to by Aufrecht. It will be of interest to scholars to whom the School is known to represent a most degenerated form of Vaiṣṇavism, as it draws attention to the philosophical outlook of the rites and practices of the members thereof.

Mr. *Chakravartī* said that the special importance of the manuscript exhibited was due to the paucity of the doctrinal literature of the School, particularly in the Sanskrit language. The work is stated to have been composed in 1897 v.s. (1841 A.D.) following the conciliatory views of the author's preceptor Priyādāsa as expressed in the latter's *Srutitātpary-āmrta* (fol. 6B-RASB. MS. of the *Rādhāvallabhīyamataparakāśa*). It begins by giving a legendary account of the origin of the Rādhāvallabhī School, and discussing the possibility of the simultaneous worship of the two deities, Rāma and Rādhā, who are incidentally shown to be identical. The author, a ruler of Rewa in Central India, was, besides being a good scholar, a great patron of Sanskrit learning. His genealogy appears to have been given at the end of his *Sarvasiddhānta*, a manuscript of which has been partially described by R. L. Mitra (*Notices of Sanskrit MSS. VII, 2329*). This work refers to his minister Bhodulāla and to his work called *Bhāṣārāmāyaṇa*. Among his other works, the Society possesses manuscripts of four, while the *Catalogus Catalogorum* refers to six.

2. JOHAN VAN MANEN.—*Śilhana's Śāntiśatakam*.

The 'Century' poetry in Sanskrit is one of the chief ornaments of Indian literature. Amongst the most important of these 'centuries' belongs the one, on Śānti or Inner Peace, by Śilhana though it has not become especially popular or famous.

The date of its composition and the personality of its author are rather uncertain. The various recensions differ to a certain extent in their contents.

An interesting problem is whether the structure of the little collection, already divided into four sections, can be further analyzed. The speaker believes that this can be done. He

thinks that there are some introductory and concluding verses which do not strictly form part of the Century itself. Of what remains a number of verses are doublets, either of the type of 'before and after' or of 'this and that'. What still remains, only half a dozen verses, is probably interpolation. The resultant central hundred ślokas, either singles, or doubles, seem to show a most regular grouping of units of 5 ślokas, each devoted to a distinct subject.

If these conclusions are valid, a canon has perhaps been found for the criticism of other Sanskrit Century poems.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the two candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

The Chairman announced that, unless notice be given, no Ordinary Monthly Meetings would be held during the recess months, September and October.



NOVEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th, at 5-30 P.M.

PRESENT.

A. M. HERON, Esq., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Vice-President, in the Chair.

Members :

Auden, Mr. J. B.
Brown, Mr. Percy
Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Chatterjee, Dr. M. N.
Dugin, Mr. L. S.

Ghosal, Dr. U. N.
Haq, Mr. M. Mahfuz-ul
Hossain, Dr. M. Hidayat
Manen, Mr. Johan van
Pasricha, Major C. L.
White, Mr. J. C.

Visitors :

Brown, Mrs. Percy

White, Mrs.

Roy-Choudhury, Mr. N.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of twenty-four presentations of books, etc., which had been kept on the table for inspection.

The General Secretary reported that the following candidates had been elected Ordinary Members during the recess months, under Rule 7:—

(19) *Dominguez, Bernardo*, Panamanian Consul, 35, Chowringhee' Calcutta.

Proposer: Edward M. Groth.

Seconder: Johan van Manen.

(20) *Rahman, M. D.*, B.A., Auditor, Comptroller's Office, Orissa; Qr. 161, Hinoo, Ranchi.

Proposer: A. M. Heron.

Seconder: Percy Brown.

The following candidates were balloted for for election as Ordinary Members:—

(21) *Elkhout, Jhr. P. J.*, Vice-Consul for the Netherlands, F-1, Clive Buildings, Clive Street, Calcutta.

Proposer: Johan van Manen.

Seconder: Percy Brown.

(22) *Jatia, Kanai Lall*, Merchant, 21, Rupchand Roy Street, Calcutta.

Proposer: Johan van Manen.

Seconder: Percy Brown.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

(6) Sir Onkar Mull Jatia (An Ordinary Member, 1925).

(7) N. N. Vasu (An Associate Member, 1927).

The Chairman then read an obituary notice of the late Mr. T. H. D. La Touche, written by him (vide page 155).

The Chairman called upon Dr. M. Hidayat Hosain to read an obituary notice of the late Sir T. Wolseley Haig (vide page 157).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(16) M. Sayeed-ud-Din (An Ordinary Member, 1935).

(17) Saileswar Singh-Roy (An Ordinary Member, 1935).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 48(d), the General Secretary reported for confirmation to the meeting the appointment made by the Council, since the last Ordinary Monthly Meeting, of Mr. John Robert Seal as Assistant Secretary to the Society on probation for one year, as a result of the recommendations of the Special Sub-Committee appointed by the Council.

The appointment was approved and confirmed.

The following exhibits were shown and commented upon:—

1. CHINTAHARAN CHAKRAVARTI.—*A Manuscript of a hitherto unknown Work of the Nakūlīśa-Pāśupatas.*

The manuscript (5474) which belongs to the Indian Museum collection lent to the Society seems to be unique. No other manuscript is known of the work which may not unlikely be identical with the original and principal text of the Nakūlīśa-Pāśupatas, attributed to the founder of the school. This is the second known work of the school, the only work so far known being the *Gaṇakārikā*, published in the Gaekwad's Oriental Series (Baroda, 1920).

Mr. Chakravarti said that the available literature of the Nakūlīśa-Pāśupatas, a well-known and fairly old Śaiva sect, is quite scanty. A number of works, however, are referred to in the *Sarvadarśana-saṃgraha* of Mādhavācārya (14th cent.) which describes the tenets of various sects. One of these, the *Gaṇakārikā*, a very small work, was discovered several years back and published in the Gaekwad's Oriental Series (Baroda, 1920). The earliest and the most authoritative text-book of the school, which was drawn upon and held in great regard by all the later writers and for which divine authorship is claimed, appears to have been a work in Sūtra form. The manuscript exhibited to-day seems to contain this very important work or rather a part of it. Several Sūtras stated to belong to this work and quoted by Mādhavācārya are found here. What is referred to by Madhava as the first Sūtra of the work occupies the same position here. The elaborate commentary of Kaundanya of which a fragment accompanies the text here claims a divine origin for this as is done for the original work of the system.

2. PERCY BROWN.—*Indian Ladies playing Polo.* (Indian Miniature.)

An Indian miniature representing two parties of Indian ladies playing polo. Although Indian ladies of the seventeenth and eighteenth centuries are occasionally depicted in Rajput and Moghul miniatures engaged in various forms of sport teams of these taking part in a game of polo are rare. This outline drawing shows them evidently amusing themselves in a well-organized competition. The drawing although rather conventional in its composition is a spirited conception and has certain artistic merit.

The following communication was made:—

1. JOHAN VAN MANEN.—*Recent Exploration in Tibet.*

It is of interest from time to time to review the advance of our knowledge concerning Tibet. In the last decade exploration has been very active. Geographically the work done may be roughly grouped into exploration (1) in the West, mainly around Kashmir, (2) in the South, the great Himalayan peaks, (3) in the East, the Countries West of China, and (4) in Central Tibet, the few visits to Lhasa and other places. The exploration is chiefly of a geological, alpinistic, geographical, botanical, zoological, anthropological, linguistic or historical nature, according to the special interest of the travellers.

Amongst nationalities, the British, Americans, Italians, Germans, Dutch, Swiss and Indians are represented. The speaker attempts to give an outline of the main progress made during the last decade.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the two candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



DECEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 5th, at 5-30 P.M.

PRESENT.

A. M. HERON, ESQ., D.Sc. (Edin.), F.G.S., F.R.G.S., F.R.S.E., F.R.A.S.B., Vice-President, in the Chair.

Members :

Brown, Mr. Percy
Chakravarti, Prof. C.
Eekhout, Jhr. P. J.
Ghosal, Dr. U. N.
Haq, Mr. M. Mahfuz-ul
Hobbs, Mr. Harry

Hosain, Dr. M. Hidayat
Jain, Mr. Chhotelal
Klebe-Brandt, Dr. A.
Manen, Mr. Johan van
Prashad, Dr. Bains
White, Mr. J. C.

Visitors :

Das-Gupta, Mr. C.
Ganguly, Mr. A.
Kripalani, Mr. J. K.

Lewis, Mr. Harrison
Lewis, Mr. H. B.
White, Mrs. J. C.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of ten presentations of books, etc., which had been kept on the table for inspection.

The General Secretary also reported receipt of fifty-seven presentations of books made to the library of the Society by Dr. Bains Prashad as Director of the Zoological Survey of India.

The following candidate was balloted for for election as an Ordinary Member:—

(23) *Das-Gupta, C. C.*, M.A., Assistant Superintendent, Archaeological Survey of India, 84-B, Jatin Das Road, P.O. Kalighat, Calcutta.

Proposer: Benoy C. Sen.

Seconder: J. N. Mukherjee.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

(8) Mr. N. G. Majumdar (An Ordinary Member, 1920; An Ordinary Fellow, 1935).

The Chairman called upon Dr. Bains Prashad to read an Obituary notice of the late Mr. Majumdar (vide page 158).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

- (18) Felix Howland (An Ordinary Member, 1935).
- (19) K. S. Krishnan (An Ordinary Member, 1934).
- (20) Prince Akram Husain (An Ordinary Member, 1934).
- (21) Ph. C. Visser (An Ordinary Member, 1932).

The General Secretary reported that the election of—

- (2) M. D. Rahman (Elected on 5-9-38),

had become null and void, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following paper was read:—

1. M. B. Roy.—*Interesting sidelight on Firūz Shāh Tughlaq's Expedition to Tatta.*

In this paper the author has given a translation of a letter appearing in a rare Persian Manuscript, known as Inshā-i-Māhrū, which contains letters written by the eminent nobleman 'Ain-ul-Mulk Māhrū, who served both Sultān Moḥammed and Firūz Shāh Tughlaq, both were Emperors of Delhi from 1324 to 1388 A.D.

The letter translated deals with the circumstances that necessitated the expedition of Sultān Firūz Shāh Tughlaq to Tatta in Sind. According to the court historian, Shams-i-Sirāj 'Afif, Firūz Shāh undertook the expedition with the two-fold objectives, conquest and vengeance. But this letter clearly proves that the expedition originated from a desire to suppress the rebels as stated in Sirat-i-Firūz Shāhi, and the conquest of Tatta was a necessary sequel to Bābāniya's aggressions.

The paper therefore throws light upon the many aspects of the reign of Sultān Firūz and is important for a reconstruction of the existing history of Sultān Firūz Shāh Tughlaq and his conquests.

In the absence of the author, Dr. M. Hidayat Hosain communicated the paper to the meeting.

Mr. Percy Brown remarked that an interesting confirmation of the fact that at the time the eyes of the Sultanate at Delhi were turned towards the west of India, is shown in the Indo-Islamic architecture produced during the supremacy of the Tughlaqs. For under this dynasty appears for the first time that distinctive slope or batter of the walls, particularly noticeable in one of the earliest buildings of the Tughlaqs, the tomb of Ghiyas-ud-Din Tughlaq I (Dec. 1325). This 'Tughlaqman slope' was most probably inspired by some of the tombs of western India, which again derived from a Persian source. An example is the famous tomb of Rukn-i-Alam, which was produced to the order of Ghiyas-ud-Din Tughlaq between the years 1320-24.

The following exhibit was shown and commented upon:—

1. JOHAN VAN MANEN.—*Seven Water Colours from Tibet.*

Recently a Bihari scholar made an expedition to Tibet and especially to the little known Sakya monastery to collect Sanskrit Manuscripts and to study the valuable collection of such Manuscripts deposited, from ancient times, in that institution. He had with him a gifted artist, Mr. Kunwal Krishna, who made a number of interesting water colours of scenes, types and buildings. The exhibitor has acquired seven of these pictures and now exhibits them. The two most interesting are those that give views of the Sakya monastery which hitherto has remained almost unvisited by explorers.

Mr. Percy Brown said that Mr. Kunwal Krishna comes from the Punjab, and it was from the art of the Province that he received his first inspiration. Afterwards he studied in Calcutta, so that he combines influences from both these schools of paintings. Such influences are obvious in his work, which is remarkably colourful and reveals great promise.

The Chairman announced the result of the ballot for the election of the Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

OBITUARY NOTICES.¹

THE RIGHT HON'BLE LORD RUTHERFORD OF NELSON,
LL.D., O.M., D.Sc., Ph.D., F.R.S.

(1871-1937.)

Through the death of Lord Rutherford, the world of science has lost its most illustrious experimental physicist of the present times. The news of his death gave a rude shock to scientific workers in India who had been looking forward to his presence and guidance at the deliberations of the Silver Jubilee Session of the Indian Science Congress Association as its President. In fact he had completed his Presidential Address shortly before he fell ill and had to undergo an operation. The illness unexpectedly proved fatal in its consequences. His Presidential Address to the Indian Science Congress Association was read by Sir James H. Jeans, who succeeded him as President of the Congress. The address contained a direct message to Indian Science, in that it emphasized, the great part it is expected to play for the advancement of the welfare of the people of India. It also referred to the promising progress which science had already made in India.

Ernest Rutherford was born in New Zealand on August 30th, 1871 and was the youngest child of his parents. His early education took place in Brightwater and Nelson. He remembered the latter place when he was raised to the peerage. After a successful University career in New Zealand where he also carried out some important researches, he was awarded in 1895 an 1851 Exhibition Scholarship. This enabled him to join the Cavendish Laboratory and to work under Professor Sir J. J. Thomson. Experimental physics was at that time at the dawn of a new era ushered in by the discovery by Rontgen of X-rays and of the active rays in Uranium and their compounds by Becquerel. Sir J. J. Thomson contributed in no small degree to the inauguration of this new era by his classical researches on electron and gaseous ions. The Cavendish Laboratory with the brilliant record it had already achieved seems to have provided the most suitable environment to the genius of Rutherford for bringing about a magnificent fruition of this new urge in the world of science. The group of young physicists then working

¹ The material published in *Nature* of October 30 and December 18, 1937, has been utilized in writing this obituary notice.

in the Cavendish Laboratory included C. T. R. Wilson, Townsend, H. A. Wilson, Langevin and Rutherford.

Rutherford soon made his mark as a physicist of promise and was chosen the second research professor in succession to Callender in the McGill University, Montreal, Canada. He actively took up his investigations of radiations from radioactive substances and soon in collaboration with Soddy who was then in the department of chemistry of the same University put forth the theory of disintegration of radioactive elements based on their researches. The theory and the technique of the study of radioactive changes were rapidly developed and applied to the disintegration of several radioactive elements including radium and its products.

In 1904 Rutherford was asked by the Royal Society to deliver the Bakerian lecture and was awarded the Rumford Medal. In 1906 he published his first book entitled 'Radioactivity'. Rutherford went from success to success choosing always with rare insight the central theme in the physics of the atom. McGill soon became famous and attracted such distinguished young physicists and chemists such as Otto Hann and others. The co-operation of the chemists with the physicists indeed proved very fruitful and soon led to an extension of the study of radioactive disintegration in all directions.

From Montreal he came over to Manchester and the properties of α particles, the study of which he began in Montreal, soon became his main line of work. In collaboration with Geiger, as is known to every student of physics and chemistry, the first attempt was made of measuring the charge of the α particles and of directly counting them and a fairly accurate value of the unit of charge was obtained. With Royds he finally established the identity of the α particles as ionized helium atoms by direct proof. The experiments on the scattering of α particles soon led him to postulate his theory of the structure of the atom which undoubtedly marks an epoch in the development of atomic physics which now forms the basic conception of modern physics and chemistry. Manchester in its turn soon developed into an unusually important and active centre of research on atomic physics and attracted prominent workers from different parts of the world. New knowledge on this fundamental subject rapidly multiplied. Moseley in Rutherford's laboratory established that the charge of the nucleus was determined by the atomic number. The most fruitful association of Bohr with Rutherford took place at Manchester. A great number of those associated with him are now famous in physical science. The radiations from radioactive substances which Rutherford named α , β , γ rays were all receiving attention from the workers in his laboratory but the α particle continued to claim his main interest.

In 1919 Rutherford succeeded Sir J. J. Thomson as the Cavendish Professor of Experimental Physics in Cambridge. After a period of short incubation necessitated by the distractions of the Great War and its aftermath another of equally brilliant series of discoveries relating to the nucleus itself and its artificial disintegration began to pour out from his laboratory. The new stream has continued its vigorous course up to the present time. With Cockcroft and Walton the first artificial disintegration of elements was achieved with the help of protons. Chadwick soon discovered the neutron and these and other discoveries from the Cavendish Laboratory constitute an important part of current research on nuclear physics.

Rutherford was also a great organizer and administrator. Use was made of his great knowledge during the war. He was chairman of the Advisory Council of Scientific Research for a number of years. As Sir J. J. Thomson remarks 'that he could discharge so many duties was due to his powers of organization and that his claim to know a good man when he saw him was amply justified by results. With this faculty he could delegate some of his work to others without injury to the efficiency of the laboratory, and get time to spare for his other activities. His death just on the eve of his having in the High-Tension Laboratory means of research far more powerful than those with which he had already obtained results of profound importance is, I think, one of the greatest tragedies in the history of science'. Rutherford felt that 'the future of Great Britain depends upon the effective use of science by industry. It was this faith which induced him, a man of the highest attainment in the field of pure scientific research, to devote himself, as he did unreservedly', to the work of the Advisory Council. 'The development of the research association movement, now taking place, owes much to his foresight, sympathy and advocacy.'

As a teacher Rutherford took great and kind interest in the welfare of his pupils and was held in great affection by them. In spite of all the honours that were showered on him 'he remained quite simple in all his ways'.

In 1930 he lost his only child the wife of Prof. R. H. Fowler and he felt greatly the loss.

The following tribute by Bohr published in *Nature* in its editorial on Lord Rutherford bears repetition in conclusion of this notice.

'With the passing away of Lord Rutherford, the life of one of the greatest men who ever worked in science has come to an end. For us to make comparisons would be far from Rutherford's spirit, but we may say of him, as has been said of Galileo, that he left science in quite a different state from that in which he found it. His achievements are indeed so great that, at a gathering of physicists like the one here assembled in honour of

Galvani, where recent progress in our science is discussed, they provide the background of almost every word that is spoken.'

J. N. MUKHERJEE.

(Read in the Ordinary Monthly Meeting of 7th March, 1938.)

THOMAS HENRY DIGGES LA TOUCHE, M.A., F.G.S., F.R.A.S.B.

(1855-1938.)

It is with deep regret that I have to record the death, at Cambridge on the 30th March 1938, of Thomas Henry Dignes (afterwards Digges) La Touche. He was born on the 30th October 1855, a son of the Rev. James Dignes La Touche, B.A., Vicar of Stokesay in Shropshire, and came of a Huguenot family, settled first in Ireland, one branch coming to England, many of the scions of which have been distinguished in the public services of the Indian Empire.

La Touche was educated at Shrewsbury and St. John's College, Cambridge, and took the Natural Science Tripos in 1878. For two years he was employed as Science Master in Monmouth Grammar School before joining the Geological Survey of India as Assistant Superintendent on the 29th November 1881. He was promoted to the grade of Deputy Superintendent on the 27th April 1887, and to that of Superintendent on the 17th July 1894. He officiated as Director from the 12th May to the 28th September 1906, from the 1st September to 19th November 1908, and from the 1st September 1909 to the 23rd October 1910, retiring from service with effect from the 30th October 1910.

In 1891, he married Miss N. Handy at Kingstown, Co. Dublin, who survives him. They had two sons and three daughters. One son was killed in the Great War, and the other is now in the Burma Forest Service.

His geological work in India may be divided into three main portions on a geographical basis, Assam, Northern India and the Northern Shan States.

From 1882 to 1889 he was employed in Assam on Geological Surveys and the investigation of numerous coal-fields, varied with visits to Kashmir in 1887 and 1888 to examine the sapphire mines in Zaskar and small coal occurrences. (He was again in Kashmir in 1902 on coal investigation.)

He accompanied three military expeditions in Assam as Geologist—the Aka in 1883-84, the Singpho in 1884-85, and the Chin-Lushai in 1889-90.

In 1890 and 1891 he surveyed the Daltonganj Coalfield, Bengal, in 1892 examined the Sherani hills and the oil springs of Moghul Kot, North-West Frontier Province, and in 1893 the Bhaganwalla Coalfield in the Punjab, and in 1894 and 1895 was engaged on a trial boring for petroleum at Sukkur.

Thereafter he spent three field-seasons, 1896-99, in Western Rajputana and worked out in detail the petrology of the Malani rhyolites, and in the summer of 1899 was in the Kumaon Himalayas.

The third and final division of his active geological life in the field was the seven seasons he spent in the Northern Shan States from 1899 to 1907, that of 1903-1904 not included, as he was then on long leave.

His final seasons, between periods of officiating as Director, were occupied in various enquiries, largely economics, such as on irrigation dam sites in the United Provinces and Central India, the gypsum of Hamirpur, United Provinces, the coal deposits of the Shahpur district Punjab, the copper of Sikkim, the survey of certain glaciers in that State, and the Lonar Lake in Berar.

He was elected a Fellow of the Geological Society of London in 1901. He was a life-member of the Asiatic Society of Bengal, having joined the Society on the 6th March, 1889. He took a very active interest in the Society's work, being the General Secretary and a member of the Council thereof in 1908, and President from February, 1910 to February, 1911. He was elected a Fellow of the A.S.B. in 1910.

During his service he was the author of about fifty papers. These dealt not only with the geological and economic investigations proper, which he always published with commendable celerity, but with such subjects as 'Barisal guns', erosion of rock-basins, the lakes of the Salt Range, the Ice Age in Northern India, and the history of the Geological Museum and of mining in India. In the Journal and Proceedings of the Asiatic Society of Bengal he was the author of two papers on the 'Lonar Lake' and 'Rev. Fr. E. Lafout'. In the Society's *Memoirs* (Vol. III, No. 3) he edited the Journals of Major James Rennell, F.R.S., who was the first Surveyor-General of India.

I cannot do better than quote from the General Report of the Director, Geological Survey of India, for 1910, Sir Henry Hayden's appreciation of his work, written on his retirement:

'Mr. T. D. La Touche has contributed largely to our knowledge of Indian Geology, not only in its purely scientific aspects, but also in its more practical bearing on the mineral resources of the country. The ground covered by his many published papers is remarkable for its width and variety, ranging from detailed petrography, as embodied in his description of the igneous rocks of Western Rajputana, over

the whole field of structural, physical and stratigraphical geology. His scientific researches have extended from the confines of Baluchistan on the west to the Burmo-Chinese frontier on the east, whilst his acquaintance with the coal-bearing rocks of the Himalayan areas and Assam is unique. During the latter part of his service he was engaged on a survey of the Northern Shan States, which resulted in many valuable discoveries bearing on the questions of the extension of Asian zoo-geographical provinces during the Palæozoic era and the relationship of the various Indian marine faunas of early geological ages to those of Europe and America.'

Retirement for La Touche was but the beginning of those bibliographical labours which have placed all workers in Indian geology under the deepest debt of gratitude to him. These publications are eight in number and have appeared at intervals over twenty years. They comprise a bibliography of works on Indian geology published up to 1916, an Index of Minerals of Economic Value, an Index of Localities, an Index of Subjects, a Palæontological Index, Index to the Memoirs of the Geological Survey of India, Vols. I-LIV, Index to Records, Vols. I-LXV, and Geographical Index to these Memoirs and Records and General Reports for the years 1897 to 1903.

All who use them pay tribute to their detail and meticulous accuracy, and marvel at the pertinacity which carried through to its conclusion this monotonous but immensely useful task. It was fitting that just before La Touche was taken ill, he despatched the final proof of the last of the Indexes. For men can have had the satisfaction of seeing their life's work so fully completed, before they laid it down.

His was a helpful, kindly nature, ever willing to place his wide knowledge at the disposal of others, ever ready to apply a versatile mind to the illumination of others' problems. It is comforting to think that his work will remain a monument to his character, as a perennial source of help in all branches of Indian Geology.

A. M. HERON.

(Read in the Ordinary Monthly Meeting of 7th November, 1938.)

LT.-COL. SIR THOMAS WOLSELEY HAIG, K.C.I.E., C.S.I., C.B.E.,
M.A., C.M.G.

(1865-1938.)

Sir Thomas Wolseley Haig was one of the noted Orientalists of the present age. He was born on the 7th August, 1865,

and received his education at Wellington College, Sandhurst. He joined the Indian Army in 1887 and served the Government of India in various capacities. He also officiated as Secretary to the Board of Examiners, Fort William, 1897-1899. He was His Majesty's Consul at Kerman and lastly at Tehran in Persia in 1919. He was a scholar of international reputation. He was a distinguished member of the Society for thirty-five years, and in 1927 was elected an Honorary Fellow. Some of his publications are:—

1. Historical Landmark of the Deccan.
2. Translation of Muntakhab-ut-Tawārīkh, Vol. 3, *Bibliotheca Indica*.
3. Muntakhab-ut-lubāb (edited), Vol. 3, *Bibliotheca Indica*.
4. An Old Christian Cemetery in Hyderabad.
5. Turks and Afghans (Cambridge, 1928).

He has also contributed series of articles in the 'Encyclopædia of Islam', of which a few are quoted below:—

- | | |
|------------------------|-----------------------------|
| 1. Sind. | 16. Sālar Djang. |
| 2. Siyālkūt. | 17. Sardār. |
| 3. Šūba. | 18. Salmān. |
| 4. Šūbadār. | 19. Salsabīl. |
| 5. Farrukhsiyar. | 20. Shāh 'Ālam. |
| 6. Fāruḳī Dynasty. | 21. Sefid Koh. |
| 7. Sabīl. | 22. Shāh Jahān. |
| 8. Fawdjdār. | 23. Sepoy. |
| 9. Šafawids. | 24. Shikāri. |
| 10. Šaffārids. | 25. Shikārpūr. |
| 11. Sahāranpūr. | 26. Shīr 'Alī. |
| 12. Firūz Shāh Khaljī. | 27. Ghīyāth al-Dīn Tughlaq. |
| 13. Šāhb Kīrān. | 28. Ghorī Dynasty. |
| 14. Saidī. | 29. Sharkī. |
| 15. Sanā'ī. | |

and many others.

M. HIDAYAT HOSAIN.

(Read in the Ordinary Monthly Meeting of 7th November, 1938.)

NANI GOPAL MAJUMDAR, M.A., F.R.A.S.B.

(1897-1938.)

We regret to announce the sad and untimely death of Mr. Nani Gopal Majumdar, M.A., Special Officer for Exploration of the Archæological Survey of India, who was murdered under most tragic circumstances on the 11th of November, 1938, near

Johi in the Dadu District of Sind. Mr. Majumdar was deputed from 1st of October 1938 for a period of 6 months to complete a survey of the prehistoric sites of the Indus Valley Civilization which he had so successfully carried out from 1927-31. Soon after starting work in the Upper Manchar Lake area, he was shot dead on the morning of the 11th November by a band of armed dacoits which attacked his camp.

Majumdar was the eldest son of Dr. B. Majumdar of Jessore, and was born on the 1st of December 1897. After a successful scholastic career he passed the B.A. Examination with Honours in Sanskrit in the first division of the Calcutta University and was awarded a Silver Medal and a scholarship. In 1920 he passed the M.A. Examination in Ancient Indian History and Culture in the first division and was awarded a Gold Medal for securing first position. His post-graduate studies in the newly organized Ancient History Department of the University were devoted to researches in Sanskrit and Epigraphic studies, and he derived full benefit from his association with teachers of the calibre of the late Mahamahopadhyaya Haraprasad Shastri, C.I.E., and Professor D. R. Bhandarkar. *En passant* it may be mentioned that it was apparently the influence of Professor Bhandarkar, the late Mr. R. D. Banerjee and Rai Bahadur Rama Prosad Chanda which was responsible for Majumdar developing a keen interest in Indian Archæology. During 1921-23 he was awarded the Griffith Memorial Prize for an interesting thesis on *Vaira*, the Mouat Gold Medal and the Premchand Roychand Scholarship which is the blue ribbon of the Calcutta University awards for a thesis entitled *A list of Kharoshthi inscriptions*. While carrying on post-graduate studies he was appointed on the staff of the Ancient Indian History and Culture Department of the Calcutta University and continued in this capacity till 1924 when he was selected for the post of Curatorship of the Varendra Research Society, Rajshahi, Bengal. During the period of his curatorship he published a monumental volume entitled 'Inscriptions of Bengal', Vol. 3, and as a result of this and other archæological works he was selected in 1925 for archæological training by Sir John Marshall, the then Director-General of Archæology in India. He was later deputed to Mahenjo-daro where a Chalcolithic culture of the prehistoric times had recently been discovered. After this training he was appointed as Assistant Superintendent for Exploration in the Archæological Survey in June 1927, and the first important work carried out by him was a survey of the centres of the prehistoric civilization of Sind. On the 1st of June 1935 he was appointed Superintendent of the Archæological Section of the Indian Museum,—this post he held till the 1st of October 1938 when he was placed on special duty to complete his survey of the prehistoric sites in Sind. In the Indian Museum he re-organized the archæological galleries of the Museum on modern lines, and entirely

rearranged the prehistoric gallery. He also published two valuable guides to the collection in the Indian Museum, one dealing with the sculptures of the early schools and the other on the Gandhara sculptures. While stationed at Calcutta he also carried out excavations at various archaeological sites, such as Lauriya-Nandangarh (Champaran Dist.), Kosam (Allahabad Dist.), Durgapur (Burdwan Dist.) and several other sites in Bengal. In addition he deciphered and edited a large number of Brahmi and Kharoshthi inscriptions which have thrown considerable light on a number of complicated problems of Indian History.

Majumdar was one of the most distinguished products of the modern school of Archaeology in India, and was a very versatile scholar. The published results of his work bear ample testimony to his knowledge and the varied nature of his interests in the different branches of Indian archaeology. He was also a recognized authority on the early history of India, and presided over the History Section of the Prabasi Vanga Sahitya Sammilan held at Patna in December 1937.

Most of his earlier work was published in the *Indian Antiquary* and *Epigraphia Indica*, while his famous memoir 'Explorations in Sind' was published in 1934 as Memoir No. 48 of the Archaeological Survey of India.

He contributed a valuable paper on the Copper Coins from the Stupa area in *Mahenjo-daro and the Indus Civilization*, and a chapter dealing with the inscriptions of Sanchi is being published in the *Monuments of Sanchi*. In addition a large number of his papers dealing with Brahmi, Kharoshthi and later inscriptions have been published in the *Epigraphia Indica*. An interesting contribution of his to the India Society's publication heading *Revealing India's Past* (which is now in the press) deals with prehistoric and protohistoric civilization.

He joined the Royal Asiatic Society of Bengal as an Ordinary Member in June 1920 and was elected a Fellow in February 1936: he was probably the youngest Fellow to enjoy this great honour. He also served on the Council of the Society for a number of years. By his early death the Society has lost an active member and an outstanding scholar in the very prime of his life. Whatever branch of Archaeology he touched he left his mark.

He married Srimati Snehalata Majumdar, eldest daughter of Prof. Nalinimohan Sastri of Sylhet College, and leaves behind two daughters and a son of tender age.

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6. Home of Kalidasa (*I.A.* XLVII, 1918, p. 264).
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2. Bajaur Casket of the reign of Menander.
3. Kosam Inscription of the reign of Maharaja Vaisravana of the year 107.

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1. *Monuments of Mahavavarman* (Monuments of Mahavavarman by H. Marshall).
2. Chapter on Prehistoric and Protohistoric Civilization (In 'Revealing India's Past'—India Society's Publication).

B. PRASHAD.

(Read in the Ordinary Monthly Meeting of 5th December, 1938.)

**PROCEEDINGS OF THE MEDICAL SECTION
MEETINGS, 1938.**

No meeting of the Medical Section was held during the year.

INDEX

YEAR-BOOK ROYAL ASIATIC SOCIETY OF BENGAL

VOLUME V, 1939.

A

- Accommodation, 32, 69.
 Agencies, 37, 69.
 Annual Address, 1938-39, 9.
 Annual Meeting, 69.
 " " 1939, proceedings of, 5.
 " " Exhibition, 17.
 Annual Report for 1938, 24.
 Anthropology, 38.
 Arabic and Persian Manuscripts. Search and Catalogue, 39.
 Archæology, 38.
 Archæological Survey of India. Terracotta Seal, 17.
 —Three stone rings, 15.
 Artistic and historical possessions, 32.

B

- Banerjee, Gonendro Nath. *Durgā* (Modern Line Drawing) by Nandalal Bose, 17.
 — — A Nepalese Banner, 17.
 — — A piece of Terracotta Lion-head from Tribeni, Bengal, 17.
 — — Sandstone Head of Śiva (Orissa), 17.
 — — Black-stone Head of Viṣṇu (Garhwal), 17.
 — — Three Images of Garuḍa, 18.
 — — Wooden Toy from rural Bengal, 18.
 Bibliotheca Indica, 38.
 Biswas, Kalipada. Some typical plants of Swiss-Alps and species common to both the Himalayas and the Alps, 18.
 Bodding, P. O. How the Santals live, 144.
 Bor, N. L. *Yano Dafia Grammar and Vocabulary*, 134.
 Brown, Percy. Two Tibetan Manuscripts, referred to by Dr. Thomas, 18.
 — — Three metal figurines from Tibet, 18.

- Brown, Percy. Indian Ladies playing Polo (Indian miniature), 148.
 Budget, 70.
 Building, 70.

C

- Chakravarti, Chintaharan. Manuscripts of works describing rites for warding off the evils of old age, 19.
 — — Old Hindu Almanacs, 19.
 — — Manuscripts in Bengali Script written in the Uḍiyā style with an iron stylus, 19.
 — — Works on the art of the stealing and thief-lore, 19.
 — — A few Sanskrit texts published from rare or unique manuscripts belonging to the Society, 19.
 — — Manuscripts of three little-known works of Kamalākara, 126.
 — — Kāśinātha Bhaṭṭa and his works, 141.
 — — Manuscript of a hitherto-unknown work of the Pārānanda School, 142.
 A manuscript of a little-known work on the Rādhāvallabhī School, belonging to the Royal Asiatic Society of Bengal, 144.
 — — A manuscript of a hitherto unknown work of the Nakūlīśa-Pāśupatas, 148.
 Chakravarti, S. N. Development of the Bengali Alphabet from the Fifth Century A.D. to the end of the Mohammedan Rule, 134.
 Chandry, Miss Mary. The Histology and physiology of the intestine and hepato-pancreas of two Isopods, *Ligia exotica* Roux. and *Armadillio elevatus* Verhoeff, 139.

- Coins, 70.
 Committees, Finance, 71, 128.
 „ Library, 71, 128.
 „ Publication, 71, 128.
 Communications, 37.
 Condolences, 25.
 Congratulations, 30.
 Council, 26, 72.
 „ Committees of, 26.
 „ Abstract Proceedings, 1938, 69.

D

- Das Gupta, C. C. A type of sedentary game prevalent in the United Provinces of Agra and Oudh, 139.
 Deputations, 29.

E

- Elliott Prize for Scientific Research, 30.
 Emeneau, M. B. Kinship and marriage among the Coorgs, 133.
 Exhibits, 37.
 Ezra, Sir David. Coronation Chair, 19.

F

- Fellows, 75.
 „ Ordinary, 25, 117.
 „ Honorary, 25, 118.
 Finance, 33, 75.
 „ Committee, 27.
 Fox, C. S. The Rangala Meteorite, 129.
 Furniture, 76.

G

- General Lectures, 38.
 General Secretary. The Royal Asiatic Society's Publications in 1938, 23.
 —Some Recent Publications by Members of the Society, 23.
 Geological Survey of India. Meteorite and meteoritic shale, 19.
 —A new manganese mineral 'Tiroidite', from the manganese mine at Tiroidi, C.P., 20.
 —A collection of bauxites and laterites with their respective derivatives, 20.

- Geological Survey of India. A collection of rocks showing the derivation of sandstone from the weathering of impure nummulitic limestone in Assam, 20.
 —'Family tree of Man and the Apes', 20.
 —A progressive series showing the gradual evolution of the skull of various races of fossil man and a modern human skull, for comparison, 20.
 Governor of Bengal accepting the office of Patron of the Society, 30.

H

- Haig, Lt.-Col. Sir Thomas Wolseley. Obituary of, 157.
 Haq, M. Mahfuz-ul. A finely illustrated and ornamented MS. of Persian poems of Hasan. Hāfiz, Jāmi and others, 20.
 —Two *Albums* of specimens of Islamic calligraphy, 20.
 —A note on a Persian Manuscript of *Ṣahā'if-i-Sharā'if* of Muḥammad 'Askarī al-Ḥusainī of Bilgrām, 142.
 Honours, 29.
 Hora, S. L. Aerial vision in fishes, 129.
 Hosain, M. Hidayat. *Shāh Nāma* by Firdausī Tūst, 20.
 —*Al-Ikhtiyār waṭ Tajrīd* by Muḥammad bin Uthmān ash-Shāfi'i, 20.
 —The *Mu'allagāt* with the commentary of 'Alī bin 'Abdullāh al-Wahrānī, 20.
 —*Suwarul Aqālim*, 20.
 —A Flying Machine in the ninth century A.D., 185.

I

- Indian Museum, 29, 76.
 Indian Science Congress, 28, 76.

K

- Kamala Lectureship, 29.

L

- La Touche, Thomas Henry Digges. Obituary of, 155.
 Lectures, 76.
 Lewison, R. Grace. Folk-lore of the Assamese, 142.

Library, 32, 77.
 Loan of MSS., 77.
 Lord Rutherford of Nelson, The
 Right Hon'ble. Obituary of,
 158.

M

Majumdar, Nani Gopal. Obituary
 of, 158.
 Manen, Johan van. Seven water
 colours from Tibet, 21, 151.
 —The study of Heracitus, 126.
 —Silhana's *Sāntisatakam*, 145.
 —Recent Exploration in Tibet,
 148.
 Manuscript Catalogues, 80.
 Medal, Annandale Memorial, 31.
 .. Barclay Memorial, 30.
 .. Calcutta Indian Science
 Congress, 31.
 .. Joy Gobind Law Memorial,
 31.
 .. Paul Johannes Brühl Memo-
 rial, 31.
 .. Pramatha Nath Bose Memo-
 rial, 31.
 .. Sir William Jones Memorial,
 31.
 Medals, 80.
 Medallists (Recipients). Elliott
 Gold Medal and Cash,
 121.
 .. Barclay Memorial, 121.
 .. Annandale Memorial, 122
 .. Indian Science Congress
 Medal, Calcutta, 122.
 .. Joy Gobind Law Memo-
 rial, 122.
 .. Paul Johannes Brühl
 Memorial, 122.
 .. Sir William Jones Memo-
 rial, 122.
 Medical Section Meetings, 1938.
 Proceedings, 163.
 Meetings, 37.
 Members, Ordinary, 24, 93.
 .. (chronological), 110.
 .. Associate, 25, 116.
 .. Special Anniversary Hono-
 rary, 25, 116.
 .. Institutional, 25, 117.
 .. Life (chronological), 115.
 .. List of, 89.
 Membership, 80.
 .. changes in, 119.
 .. statistics, 40.
 Miscellaneous, 81.
 Monthly Meetings, 80.

Mukherjee, J. N. *Thixotropy* (Ex-
 periment Nos. 1-5), 21, 22.

N

National Institute of Sciences of
 India, 29, 82.
 Natural History : Biology, 88.
 " " Physical Science,
 38.
 Numismatics, 39.

O

Obituary, 83.
 " Notices, 152.
 Office, 27.
 " Bearers, 26.
 Officers and Members of Council,
 1939, 16, 92.
 Officers and Members of Council,
 1938, 91.
 Ordinary Monthly Meetings, 1939.
 Proceedings of, 123.

P

Patron, 83.
 " List of, 90.
 Philology, 88.
 Prashad, Baini. Habitat Group of
 the Goggle-eyed Fish or Mud-
 skipper *Periophthalmodon*
schlosseri (Pallas), 142.
 Premises and Property, 31.
 Presentations, 83.
 " donations and legacies,
 32.
 Printers, 36.
 Provident Fund, 83.
 Publications, 36, 83.
 .. Exchange of, 37, 74.
 .. issued during 1938 by
 the society, 41.

R

Receipts and Disbursements of the
 Royal Asiatic Society of
 Bengal for the year 1938
 Abstract Statement of, 43.
 Re-organization (office), 84.
 Representation, 85.
 Roy, N. B. Interesting sidelight
 on Firūz Shāh Tughlaq's Ex-
 pedition to Tatta, 150.
 Rules and Regulations, 28, 85.

S

Sanskrit Manuscripts, 89.
 Social functions, 90.
 Staff, 86.

V

Varma, Siddheswar. The Dialects
 of the Khas-Sli Group, 128.
 Visitors to the Society, 80.

Z

Zoological Survey of India. *Epibulus insidiator* (Pallas). A remarkable fish from the Andaman Islands, 22.
 —Models of Marine Invertebrates, 22.
 —'Beyop' or the bronze girdle worn by Abor women, 28.

Date of Publication **December, 1939.**

Pp. 1-163.

(Complete.)

YEAR-BOOK
OF THE
ROYAL ASIATIC SOCIETY OF BENGAL
FOR 1939

VOLUME VI
1940

Year-Book, Royal Asiatic Society of Bengal, 1939

CONTENTS

	<i>Page</i>
1. Proceedings, Annual Meeting, 1940	5
Annual Address, 1939-40	9
Patron's Address	14
Officers and Members of Council, 1940	16
Exhibition, Annual Meeting	17
Annual Report, 1939	30
Membership Statistics, 1910-1939	59
Publications for re-consideration	60
List of Publications, 1939	62
Abstract Statement of Receipts and Disbursements, 1939	63
Abstract Proceedings Council, 1939	89
2. List of Patrons, Officers, Council Members, etc., 1939	121
Patrons	122
Officers and Members of Council, 1939	123
Officers and Members of Council, 1940	124
Ordinary Members, alphabetically	125
Ordinary Members, chronologically	142
Life Members, chronologically	147
Special Anniversary Honorary Members	148
Associate Members	148
Institutional Members	149
Ordinary Fellows	149
Honorary Fellows	150
Changes in Membership	152
Loss of Members, 1939	152
Elliott Gold Medal, recipients	154
Barclay Memorial Medal, recipients	154
Sir William Jones Memorial Medal, recipients	155
Annandale Memorial Medal, recipients	155
Joy Gobind Law Memorial Medal, recipients	155
Paul Johannes Brühl Memorial Medal, recipients	155
Indian Science Congress Medal, Calcutta, recipients	155
3. Proceedings, Ordinary Monthly Meetings, 1939	157
Obituary Notices	200
4. Proceedings, Medical Section Meetings, 1939	202
5. Publications Bibliotheca Indica, 1939	203

PROCEEDINGS OF THE ANNUAL MEETING, 1940.

FEBRUARY.

The Annual Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 5th February, 1940, at 5 P.M.

PRESENT.

HIS EXCELLENCY SIR JOHN ARTHUR HERBERT, G.C.I.E., Governor of Bengal, Patron.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Anderson, Mr. J.
Basu, Mr. J. N.
Biswas, Dr. K. P.
Bose, Dr. G.
Bose, Mr. S. M.
Bothra, Mr. S. K. Singh
Brahmachari, Dr. P. N.
Brahmachari, Sir U. N.
Brahmachary, Rai Bahadur S. C.
Brown, Mr. Percy
Cameron, Rev. A.
Chakravarti, Prof. C.
Chatterji, Mr. M. M.
Chatterjee, Mr. Patitpaban
Chatterjee, Dr. S. K.
Chaudhuri, Dr. Roma
Chopra, Bt.-Col. R. N.
Cleghorn, Miss M. L.
Dutt, Mr. M. N.
Fox, Dr. C. S.
Ghatak, Mr. J. C.
Ghose, Mr. S. K.
Ghosh, Dr. P. N.
Ghoshal, Dr. U. N.
Guha, Dr. B. S.
Haq, Prof. M. Mahfuz-ul
Hobbs, Major H.

Hosain, Dr. M. H.
Kramrisch, Dr. Stella
Law, Dr. S. C.
Lort-Williams, Hon'ble Mr. Justice
John. Kt.
Mahtab, Maharajadhiraja Sir B. C.
Mahtab, Maharajkumar, A. C.
Majumdar, Mr. J. M.
Meyer, Miss S.
Mitter, Mr. S. C.
Mookerjee, Dr. S. P.
Mukherjee, Dr. J. N.
Mukherjee, Rai Bahadur Pannalal
Nag, Dr. K.
Neogi, Dr. P.
Parker, Capt. E.
Pasricha, Major C. L.
Prashad, Dr. Baini
Rahman, Prof. S. K.
Rao, Mr. U. S.
Ray Chaudhuri, Prof. H. C.
Saha, Dr. M. N.
Sarkar, Sir Jadunath
Seal, Mr. S. C.
Sen, Dr. B. C.
Sen, Mr. D. N.
Siddiqi, Dr. M. Z
Sircar, Mr. Ganapati
Sondhi, Mr. V. P.

Visitors :

Barua, Mr. Ambica
Barua, Mr. S.
Basu, Mr. M. M.
Bingham, Mr. G. E.
Biswas, Mrs. K. P.
Biswas, Dr. P. C.
Biswas, Mr. S.

Boso, Mr. A. M.
Brown, Mrs. Percy
Chakravarti, Mr. S. K
Cameron, Mrs. M.
Chatterjee, Mr. A. P.
Chatterjee, Dr. B. K.
Chaudhuri, Mr. B.

Chaudhuri, Mr. H. D.	Mitra, Dr. A.
Cleghorn, Miss O.	Mitra, Mr. K. C.
Das Gupta, Miss Jyotsna	Mitra, Mr. N. K.
Datta, Mr. J. M.	Mitter, Mr. N. C.
Devi, Sreemati Mira	Mittra, Mr. R. K.
Edgley, Hon'ble Mr. Justice N. G. A.	Mukherjee, Rai Sahab D. N.
Edgley, Mrs.	Mukherjee, Mr. R.
Ekstrom, Mr. P.	Nag, Mrs. Santa
Ellis, Mr. N. A.	Pask, Dr. J. D.
Ezra, Lady	Patterson, Mr. A. M.
Fleming, Mr. Andrew	Patterson, Mrs.
Ghose, Miss Bani	Prashad, Mrs. R.
Guha, Mr. B. C.	Rao, Mr. H. S.
Guha, Mrs. Uma	Rao, Miss U. S.
Gupta, Mr. J. N.	Rao, Mrs. U. S.
Hafiz, Mr. K. A.	Roonwal, Mr. M. L.
Hosain, Mr. S. W.	Seal, Mrs. J. R.
Huda, Mr. S. S.	Sen, Miss Usharani
Hye, Mr. A. H. M. A.	Sethia, Mr. C. L.
Jacob, Mr. C. K.	Sinha, Mr. Ram Kamal
Khan, Hon'ble Mr. Tamizuddin	Townend, Mrs. T. J.
Khundkar, Hon'ble Mr. Justice	Wheeler, Mr. P.
N. A.	Wheeler, Mrs.
Khundkar, Mrs.	White, Mr. J. C.
Macfarlane, Dr. E. W. E.	White, Mrs. J. C.
Majumdar, Mr. D. C.	Wickins, Mr. J.
Majumdar, Mrs. D. C.	Wickins, Mrs.

and many others.

The President for 1939 declared the Annual Meeting open and said :—

‘LADIES AND GENTLEMEN,

Voting papers for the election of the new Council and Ordinary Fellows will be distributed to all the Ordinary Members Present. I request all Ordinary Members to deliver their votes in the collection boxes which will be sent round to them’.

After the distribution of the voting papers, the retiring President said,

‘LADIES AND GENTLEMEN,

Have all votes been delivered? If yes, I call upon Capt. E. Parker and Dr. Kalidas Nag to act as scrutineers. I now call upon the General Secretary to present the Annual Report for 1939’.

The Annual Report was then presented (vide page 30).

Then the retiring President announced that the General Lectures would be delivered as follows :—

(1) 16th February, 1940, at 6-30 P.M. Dr. Meghnad Saha : ‘Physics in Aid of Medicine’.

(2) First week in March. Bt.-Col. R. N. Chopra : ‘Use of Hemp Drugs in India’.

At 5-30 P.M. the retiring President vacated the Chair, and invited Sir Jadunath Sarkar to occupy it during his absence from the room.

The retiring President, the Treasurer and the General Secretary then left the meeting room to receive His Excellency Sir John Arthur Herbert, Governor of Bengal, Patron of the Society, at the entrance of the building.

On the arrival of the Patron the retiring President introduced the Council to him, and after a brief word of welcome invited him to occupy the chair.

After his installation in the chair, the Patron called on the retiring President to deliver his Annual Address.

The retiring President then addressed the meeting (vide page 9).

The retiring President then called upon the scrutineers to report and announced the results of Council election (vide page 16).

The retiring President then gave place to the President for 1940, who thanked the Society briefly.

The President for 1940 then invited the Patron to address the meeting.

His Excellency Sir John Arthur Herbert then addressed the meeting (vide page 14).

After the termination of the Patron's address, the President for 1940 proposed a vote of thanks to the Patron.

The vote of thanks having been adopted by acclamation, the President made the following announcements:—

'I have now great pleasure in announcing that, having heard the report of the scrutineers, I declare the following Ordinary Members :—

1. Dr. U. N. Ghoshal,
2. Dr. B. C. Law,
3. Dr. R. C. Majumdar,
4. Dr. H. S. Pruthi.

duly elected Ordinary Fellows of the Royal Asiatic Society of Bengal.

I have next to announce that the Elliott Prize for scientific research was instituted in 1892 by the late Sir Charles Elliott, the then Lieutenant-Governor of Bengal, to encourage original research amongst the younger generation in Bengal, Bihar and Orissa. The first award was made in 1893 and the prize was since then given by preferences for researches leading to discoveries likely to develop the industrial resources of Bengal, Bihar and Orissa. In rotation four different branches of enquiry form the subject of the prize, and last year the prize was for Geology and Biology (including Pathology and Physiology).

I have to announce that papers from four candidates have been received in competition for the prize for 1939, and the

Trustees have judged that the prize shall be awarded to Mr. P. K. Chatterjee.

The Prize for 1940 will be for Mathematics regarding which detailed information has been published in the *Calcutta, Bihar, and Orissa Gazettes*.

My next announcement concerns the Barclay Memorial Medal. This medal is awarded every alternate year for conspicuously important contributions to Medical or Biological Science with special reference to India.

This year the medal is awarded to Major General Robert McCarrison, Kt., C.I.E., M.D., D.Sc., F.R.C.P., LL.D., K.H.P., I.M.S. (retd.).

My next announcement concerns the Annandale Memorial Medal. This medal is awarded every three years for conspicuously important contributions to the study of Anthropology in Asia. This year the medal is awarded to Prof. Frank Weidenreich of Peiping.

The President invited the Patron to bestow the awards on the recipients or their representatives.

The President also announced a donation of Rs.500 to the Society by the retiring President, Sir David Ezra, Kt.

The President for 1940 made the following final announcement:—

‘In declaring the Annual Meeting dissolved, I now invite the members present to continue in Ordinary Monthly Meeting of the Society for the election of members and transaction of business, and visitors to inspect the exhibits shown at the other end of the hall.’

The President then conducted the Patron for examination of the exhibits (see page 17), and accompanied him to the entrance on his departure.

ANNUAL ADDRESS, 1939-40.

In my address to you last year I made certain observations regarding the work and activities of the Society based on my experience as its President during the past year. These observations dealing mainly with the material rather than the intellectual and cultural activities of the Society seem to have been very opportune, for during the past year your Council has had to devote a great deal of its attention to some of the pressing needs of the Society in this direction. Naturally the material well-being of the Society is intimately bound up with its cultural activities, and the latter also have, therefore, received a great deal of our attention. As all this work is of vital importance in connection with the future of the Society, I propose to devote my address this afternoon to a review of what has been achieved during the past twelve months. Details of our activities have already been presented in the Annual Report, but I am of the opinion that the value and magnitude of the accomplished task cannot be too strongly emphasized, and, although I will have to mention again what has been detailed in the Annual Report, I do so in the hope that my comments may help, even though in a small way, in consolidating the foundations of the work of resuscitation which have been so well and truly laid through the devoted work of a small band of our Council members who gave so much of their valuable time to finding out where the trouble lay and in propounding effective measures and policies to set the matters right. Here I would like to make a reference to the resignation last June of Mr. Johan van Manen who for the past sixteen years had held the office of the General Secretary. Having been in close contact with him for so many years I am sorry that he is not with us today. Let us hope that his health, which has not been good in recent years, will improve and that during his retirement he will be able to carry on his studies resulting in productive work.

At the beginning of the year under review it was prominently brought home to the Council, both through the Press and through individual member's comments, that the affairs of this old Society of ours were not progressing as smoothly as they should. Whereas the Council was prepared to concede that certain of the adverse criticisms might be justified, it was not prepared to accept the wholesale condemnation of the Society's administration without detailed investigation. It, therefore, appointed a Special Committee on the 27th February 'to enquire into the general administration and cultural activities of the Society, and to submit to the Council a detailed report with recommendations, if any, for effecting necessary improvements'. The

Committee was further requested 'to report on the alleged discrepancies between Rules and Regulations on the one hand and existing procedure and practices of the Society on the other'. This Committee, under the Chairmanship of Sir John Lort-Williams, and ably assisted by its energetic Secretary, Dr. Bains Prashad, and seven members of the Council after working for nearly six months, submitted a detailed report to the Council at the beginning of August. It reviewed every aspect of the Society's work and activities in great detail. To appreciate the magnitude of its task it is only necessary to see the volume of the material collected, sifted, weighed, and finally adjudicated upon. I attended most of its meetings in my capacity as President of the Society and having been in close touch with its activities throughout the period, I cannot but express my personal thanks and admiration for the careful, meticulous and painstaking manner in which its work was carried out. The members of the Committee took up their task with open minds, tackled it methodically, and passed their judgment on each matter with an impartiality and shrewdness which are deserving of the highest praise. I must also place on record my appreciation of the manner in which the members of the staff responded to the heavy calls made on them by this enquiry. The Council, after reviewing the report, was so convinced of the fair, complete, thorough and sound nature, not only of its criticisms but also of its recommendations, that in a special meeting on the 10th August, convened for the purpose, and at which no fewer than 14 members of the Council were present, it adopted the report *in toto* without a single note or remark of dissent. The findings and recommendations of the Committee are detailed under various heads in the Annual Report, and I will, therefore, only refer to a few of its salient features. It was found that laxity and oversight, delay and procrastination, lack of co-ordination and system were responsible for most of the complaints. Thanks to the untiring efforts that have been made by all concerned, these adverse factors have now disappeared. During the short space of five months that have elapsed since the Committee's report was adopted the outturn of work, both in quality and quantity, has been remarkable. The homogeneous and co-ordinated efforts of our staff have resulted in great improvements in all directions and our building and possessions are now in a condition of which we can justly be proud.

Turning to what has been done and the general policy for the future I propose to refer in general terms to the anticipated effects of the measures that have been adopted for putting matters right and to ensure that they remain in that state. Our publications, which are the main index of our activities, were considerably in arrears; many works had been started at considerable expense, but were not completed; official numbers of the *Journal* were seriously in arrears; the number

of papers, articles, etc. offered for publication had, mainly as a result of delay in their issue, sadly fallen off; while quite an appreciable amount of our resources were tied up in works in the *Bibliotheca Indica* Series, which had been sanctioned and started, but allowed to remain in abeyance. For publications in all departments which have been issued in 1939 I would invite your attention to the lists printed as Appendix II A of the Annual Report. The number of these, I venture to submit, is most gratifying, and reflects great credit on the editors, the Publication Committee and the Council, the office staff and finally the Baptist Mission Press, all of whom have worked hard to expedite their final issue. They have cost a great deal of money, but they are now available for scholars all over the world, and their sales indicate that we can expect a fairly speedy return of some part of the money that we have expended on them. This return to active publication has had other pleasing results. Material is now coming in for publication in an adequate quantity, and this shows that the Society's publications again appeal to scholars as being eminently well-adapted for recording the results of their labours. The number of new members joining the Society is again on the increase; there are 11 applicants for election at our Ordinary Monthly Meeting today. The procedure laid down for dealing with materials for publication has been revised, and authors can now rest assured that their works will not only be adequately and impartially judged, but will be dealt with expeditiously at all stages between their receipt and final publication.

In the library much has been and is being done to improve conditions so as to render our unique library of greater utility to all members and scholars. We now know what books are available, where they are, and in what condition they exist. All of them have been carefully examined, repaired and rebound and will soon be handsomely and satisfactorily housed in new steel shelves or almirahs which have been ordered for our library. The preparation of comprehensive catalogues has been taken up, and these, when completed, will give readier access to all our library possessions. A new feature in our publications, the Review Section, will, it is hoped, set a high standard for book reviews in this country, and in addition will enable the Society to receive valuable accessions free of cost. During the past year there has also been an increase in the number of institutions with which we exchange publications, this will enable us to enrich our library and increase its value to scholars.

The permanent staff of the office had for sometime past been working in watertight compartments and there was very little co-ordination of the work of various sections. This defect has now been removed, specific duties have been allotted to each appointment in such a manner as to render the working of the office much more elastic and interdependent, while definite scales of pay, which

have been introduced for all members of the staff, have removed much cause for discontent. The abolition of two appointments on the general side and the sanction of an additional one in the Indological department while contributing to the efficiency of the office organisation have resulted in a net saving on the staff. Correspondence and routine office work now receive prompt attention and the disposal of the various matters which come forward is consequently a matter of regular routine.

In regard to the cultural activities of the Society, general lectures, and establishing closer contacts with other institutions having similar aims and objects, I would refer you to the detailed account in the Annual Report.

For the initiation of all these reforms we are indebted to the Enquiry Committee referred to above, but the actual work of carrying out the recommendations has been performed by our General Secretary, Dr. B. S. Guha, and I would like to record here our grateful appreciation of the care, skill and tact with which he has done this difficult task.

The financial position of the Society, regarded from the purely limited aspect of receipts and expenditure, is satisfactory, but from the wider aspect of the many-sided programme of our future activities and of the urgent, but expensive improvements still to be carried out, it gives cause for anxiety, and will necessitate close attention on the part of our Council and Finance Committee during the next year. We have spent a great deal on all the reforms referred to above, and are committed to some further outlay on the provision of steel furniture, special bindings, catalogues of the library, structural repairs and additions to the building, and other not so important but equally pressing matters which are commented on in the Annual Report. With the increase of our publications, editorial remuneration, press, and binding bills have been correspondingly heavy, and some of our Funds such as the Oriental Fund No. 2, show a debit balance at the end of the year. The Government of India last year reduced their annual grant for Arabic and Persian MSS. from Rs.5,000 to Rs.2,500, but we have made strong representations for the restoration of the grant to its normal figure. Similar representations have been made to the Government of Bengal for the restoration of their grants to the Society which were reduced by 20% in 1932. Owing to the war conditions there has been an increase in all general items of expenditure, not too formidable at present, but nevertheless sufficiently marked to deserve close consideration. We have taken steps for the restoration of general lectures which were such a welcome feature of the Society's activities in the past, and are anxious to come into closer contact with other institutions by arranging, under the aegis of our Society, conferences and combined meetings, and providing intellectual and intersocial opportunities for cementing those contacts in a permanent manner. All this

means further outlay on our part. It will, therefore, be realised that whole-hearted support must continue to be given to the Society by all of us if it is to carry out its programme. Our Society holds a place in the cultural world that is second to none in this vast sub-continent—let us be worthy and jealous of that proud heritage, and work not only to maintain but to increase the prestige which is ours.

In handing over the office of President to my worthy successor, Sir John Lort-Williams, I do so in the sure knowledge that the direction of the affairs of our beloved Society could not be placed in better hands.

DAVID EZRA.

CALCUTTA,
5th February, 1940.

PATRON'S ADDRESS.

SPEECH BY HIS EXCELLENCY SIR JOHN ARTHUR HERBERT,
GOVERNOR OF BENGAL, AT THE ANNUAL MEETING OF THE
ROYAL ASIATIC SOCIETY OF BENGAL, ON THE 5TH FEBRUARY,
1940.

‘MR. PRESIDENT, LADIES AND GENTLEMEN,

I am very grateful to you for this opportunity of meeting the members of what, I think I am correct in saying, is the oldest and certainly one of the most illustrious learned Societies in India. I hope, however, you will not take it amiss when I tell you at the outset that I intend to confine myself this evening to a few remarks of a very general nature. You have already been addressed by others, who have a longer and closer association with the Society than I have, and I feel I cannot, as a newcomer, lay claim to their close knowledge of your work and activities.

I am, however, fortified by one thing. The Royal Asiatic Society of Bengal was one of my first links with my present office. For this I am indebted to a certain Mr. Walters of Dacca who was instrumental, in the early part of the last century, in bringing to notice what has come to be known as the Bhowāl plate. You must all be familiar by now with the history of this plate, how it lay for many years in the India Office, how it was recently discovered there, how you establish your ownership to it and, lastly, how I was commissioned to bring it out to Bengal three months ago—a commission which at first I was reluctant to accept. The plate has a value which no insurance can cover, for mere money can never replace something ennobled by age and history. I feared that the dangers of the voyage were such that I dare not risk submitting this valuable plate to the hazards of war. But in the end—I brought it in my own cabin, so as to be responsible for its safety.

The plate is now in your custody and though I cannot claim a ‘vested’ interest in the critical account of it which I understand is being published in the *Epigraphica Indica*, I shall look forward to seeing it with more than usual interest.

In these days of international strife and jealousy—factors which have once more plunged the world into a disastrous war—it is a relief not only for scholars, but also for those whose task it is to play their part in active politics, to turn to the domain of pure scholarship and survey its achievements and progress. A true scholar is not bound by considerations of national or racial advantage. He seeks to add to the sum total of human knowledge and cultural advance. Whilst some struggle to

evolve, by means of treaties, or may be, a League of Nations, some method of living together in peace and enjoying the material comforts which modern science has made possible, scholars have for many centuries lived in a state of what I cannot describe better than a 'state of international good-fellowship'. The scholar has time to meditate upon the past, to consider its significance as affecting the future, and to him knowledge of the past makes the present jealousies and hatreds of mankind seem futile.

When, on the other hand, attempts are made—as in Nazi Germany—to regiment and nationalize scholarship, the effect is to stifle and destroy its finest manifestations, removing this international flavour of mutual understanding.

Though your immediate activities are more closely concerned with the history and the culture of India, it is not, I think, inappropriate to recall the wider implications of your work and the importance which will be attached outside the Province and even outside India to the standard of scholarship and research for which you are responsible. It is for this reason that I welcome the greater extent to which scholars are availing themselves of your resources. A man who loves his country takes pride in its past, and you, rightly, encourage an increase in those who study the history of India,—this—great—country which is the pride of her children and which we are proud to serve, each attempting to fulfil our share of responsibility for her development. By delving into the past we may learn useful lessons for the future.

You have I know a busy evening before you and I myself am anxious to look round your premises later on. So I will not detain you longer except to say once more what a great pleasure it has been for me to come here this evening to meet you and wish you success now and for the years to come.'

OFFICERS AND MEMBERS OF COUNCIL.

ROYAL ASIATIC SOCIETY OF BENGAL, 1940.

*Elected and announced in the Annual Meeting,
5th February, 1940.*

President

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

Vice-Presidents

Bt.-Col. R. N. Chopra, C.I.E., M.A., Sc.D., M.D., F.R.C.P.,
F.N.I., F.R.A.S.B., I.M.S.

Sir Bijay Chand Mahtab, G.C.I.E., K.C.S.I., I.O.M.,
Maharajadhiraja Bahadur of Burdwan.

C. S. Fox, Esq., D.Sc., M.I.Min.E., F.G.S., F.N.I., F.R.A.S.B.

Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-
Law.

Secretaries and Treasurer

General Secretary:—B. S. Guha, Esq., M.A., Ph.D., F.N.I.,
F.R.A.S.B.

Treasurer:—Baini Prashad, Esq., D.Sc., F.Z.S., F.R.S.E., F.N.I.,
F.R.A.S.B.

Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit.,
F.R.A.S.B.

Joint Philological Secretary:—M. Mahfuz-ul Haq, Esq., M.A.

Natural History { Biology:—Kalipada Biswas, Esq., M.A.,
D.Sc., F.R.S.E.

Secretaries :— { Physical Science:—Meghnad Saha, Esq.,
D.Sc., F.R.S., F.N.I., F.R.A.S.B.

Anthropological Secretary:—H. C. Chakladar, Esq., M.A.

Medical Secretary:—Major C. L. Pasricha, M.A., M.B., B.Ch.,
M.R.C.S., F.N.I., I.M.S.

Library Secretary:—J. N. Mukherjee, Esq., D.Sc., F.C.S., F.N.I.,
F.R.A.S.B.

Other Members of Council

Percy Brown, Esq., A.R.C.A., F.R.A.S.B.

S. C. Law, Esq., M.A., B.L., Ph.D., F.Z.S., M.B.O.U., F.N.I.

Kalidas Nag, Esq., M.A., D.Litt.

Sir S. Radhakrishnan, Kt., M.A., D.Litt., F.B.A.

M. Z. Siddiqi, Esq., M.A., Ph.D.

W. D. West, Esq., M.A., F.N.I.

EXHIBITION ANNUAL MEETING.

LIST OF EXHIBITS SHOWN AT THE ANNUAL MEETING OF THE ROYAL ASIATIC SOCIETY OF BENGAL, ON THE 5TH FEBRUARY, 1940.

1. ARCHÆOLOGICAL SURVEY OF INDIA.

The Bajaur casket inscriptions of the reign of Menander.

The inscriptions occur on a steatite casket which comes from Shinkot in Bajaur territory about twenty miles to the north-west of the confluence of the Panjkora and Swat rivers, beyond the borders of the North-West Frontier Province. The steatite casket is said to have encased a casket of silver, which in turn contained a gold reliquary and some ashos; but the silver and gold articles could not be traced.

The characters appearing on the casket are Kharoshthī and the language is the North-Western variety of Prākṛit as in the post-Asokan Kharoshthī documents. The inscriptions may be classified on grounds of palæography and style of engraving of letters under two distinct groups belonging on the one hand to the period of the Śaka Satraps of Taxila and Mathurā and on the other to the reign of Mahārāja MINADRA, i.e. the Greek king Menander, who ruled sometime in the second century B.C. The first set of inscriptions were engraved sometime in the first century B.C.

The earlier portion of the record refers to the establishment of the corporeal relic of the Buddha by a person named VIYAKAMITRA in the reign of Mahārāja MINADRA, *on the 14th day of the month of Karttika* of a certain year which is lost. The later portion of the record also refers to the establishment of the corporeal relic of the Buddha, and of the bowl, which had become desecrated and unfit for worship, by a person named VIJAYAMITRA, *on the 25th day of Vaiśākha of the 5th regnal year*. One of the inscriptions of this later group mentions the name of the scribe VIŚPILA.

2. BANGIYA SAHITYA PARISHAD.

I. Paintings of old Bengal.

1. Old paintings of Bengal School from Vishnupur (Bankura).

II. Old documents of Bengal.

1. A deed of gift, 1123 B.S. (A.D. 1717) *re* the arrangement of the regular worship of Raja Pratapaditya's household deity Govinda-deva.
2. A deed of gift, 1160 B.S. (A.D. 1764), signed by Rani Bhavāni.
3. A petition written by poet Bharat Chandra Rai Gunakar to Maharaja Krishna Chandra Ray of Nadia with a note by Maharaja Krishna Chandra on it (vide *Sahitya Parisat Patrika*, Vol. 45, No. 3).
4. A deed *re* Sale of a human being (vide *Prabasi*, 1329 B.S.).

III. Autographs of some great men of Bengal.

1. Raja Rammohun Roy—Signature on a draft, dated 23rd August, 1833.
2. Michael Madhu Sudan Dutt—a letter.
3. Rev. Lalbehari De—a letter.
4. Raja Rajendralal Mitter—Miscellaneous notes.
5. Swami Vivekananda—a few lines.
6. Bankim Chandra Chatterji—a letter.
7. Keshab Chandra Sen—a letter.
8. Romesh Chunder Dutt—Manuscript copy of *Economic History of India*.

3. P. C. BISWAS.

Hereditary traits as transmitted in the pattern of the human palm.

Investigations on palmer patterns in recent years have been found to be of great value both for the study of racial classification and human genetics.

The areas on the palm of the hand where the patterns occur are Hypothenar, Thenar and Interdigitals.

The Hypothenar area comprises the proximal half of the ulnar portion of the palm. On this area pattern loop generally occurs (opened either ulnar side (L^u) or to the radial side (L^r)).

The Thenar area comprises the proximal part of the radial side of the palm. On this area patterns appear not so frequently as on the Hypothenar area. On this area pattern loop (L) and whorl (W) can be seen.

There are four Interdigital areas on the palm :—

Interdigital area I is the space between the thumb and the first finger.

Interdigital area II is the space between first and the middle fingers.

Interdigital area III is the space between the middle and the ring fingers.

Interdigital area IV is the space between the ring and the little fingers.

The patterns on the above areas (Hypothenar, Thenar and Interdigitals, specially the fourth Interdigital) present strong evidence in favour of their hereditary transmission. The attached pedigrees show how they transmit.

Family No. 6.

It is a family of three generations. I found one parent had a loop on the right palm opened ulnarward (L^u) while on the right of the other no pattern occurred. In the F_1 generation, out of five individuals, in the right palm of the four, a loop came into existence, on the same spot and of the same type as that of their parent. Two members of the family were married with wives having no loop. One of them got four children, each of whom was possessed with a loop of the same type, which appeared on the same spot on the right hand as that of their grandparent. The other got two children, one of them had no pattern at all, while on the right palm of the other a loop of the same type occurred and on the spot as his grandparent.

Family No. 9.

This is a family of three generations, in which I found on the left palm of one parent a pattern (L) occurred, while on the other it was wanting. They got nine children. Except two, on the left palm of seven children the pattern appeared. The eldest of them was married to a wife having no pattern on the left palm. But on the left palm of their children the pattern appeared.

Family No. 6.

This is a family of three generations, in which one parent had the left palm with a pattern loop on the fourth Interdigital area, whereas it was wanting on the left palm of the other. Five children were born to them. Except in one, on the left palm of the four children the same type of pattern and on the same spot occurred. Among these four sons, two sons are married. One was married to a wife of no pattern on the left palm. They had four children. In the left palm of the three, pattern appeared. The other one was married to a wife of no pattern on the left palm, but in the left palm of their children the pattern appeared.

4. PERCY BROWN.

A Chamba rumal.

This is a good example of a *rumal* (handkerchief) from Chamba, a Punjab Hill State. These runals are a characteristic of the folk art of this region, and are associated with the marriage ceremony. In effect they are not unlike the old English sampler, but of course very different in intention.

The present specimen is evidently an old one, but the art itself shows evidences of a very ancient origin. The ground of the textile is of cotton and the embroidery is generally produced by means of a double satin stitch thus enabling the pattern not infrequently to be the same on both sides of the fabric.

The subjects selected are nearly always popular scenes from the Krishna-cult; in this instance a round dance is depicted called the *Mandala-nritya* or *Rasamandala*, in which Krishna and Radha are the central figures. Around them is a ring of female dancers, and outside these another ring of musicians performing on various types of musical instruments.

5. CALCUTTA UNIVERSITY—ASUTOSH MUSEUM OF INDIAN ART.

Copper-plate inscription of Śrī Madanapāla [F. Plot, S. W. Sundarban, Bengal].

Written in Proto-Bengali characters on the side coated with silver, the inscription is dated 1118 Śaka era = 1196 A.D. As such it is the earliest dated Pre-Muhammedan record in Śaka era in Bengal. The suzerain referred to is a certain Pāladeva and his vassal Chief 'Mahāsāmantādhipati Mahārājādhirāja' with a peculiar name Śrī Madanapāladeva, the donor of the grant, belongs to a family which hailed from Ayodhyā.

The reverse contains the only important ancient engraving hitherto discovered in India. The group consists of a figure of Viṣṇu seated gracefully on a chariot with a devotee, probably Gaḍuḍa, kneeling in front.

6. GEOLOGICAL SURVEY OF INDIA.

I. *Quartz crystals.*

The two specimens of rock crystal—P. 136 and P. 160—show the class of material that has often been used for optical work. The smaller crystal—P. 160—is rather flawed and is almost the minimum size now in demand for multiple telephone working and for radio-receivers in aeroplanes. The new uses above referred to are dependent on the piezo-electric properties of clear, unflawed, untwinned quartz plates which are cut in certain directions from suitable crystals. The demand is not large, but the material of suitable character is most uncommon and until recently most of the supplies were obtained from Brazil. During the past few months a discovery of quartz crystals has been reported from Orissa, but the occurrence and suitability of the material is still under investigation.

II. *Beryl ore.*

Although the clear coloured gemstones Emerald, Aquamarine and Beryl are rare forms of the substance beryllium aluminium silicate, the two specimens—J. 26 and K. 812—are also beryl crystals. This opaque material has been found suitable as ore for the extraction of beryllium oxide and its subsequent reduction to beryllium metal, which is of value in the preparation of certain copper alloys of great hardness and strength. The metal itself is used for the 'windows' of X-ray tubes and the electrodes of neon signs. Between 1932 and 1938 inclusive, India produced nearly 940 tons of beryl ore and was thus a considerable producer of this material. Most of the beryl ore is obtained from mica-bearing pegmatites in Ajmer-Merwara.

III. *Ilmenite.*

The exhibit of black beach sand—No. 3587—from the Travancore shore consists largely of grains of ilmenite—a titaniferous mineral which contains 31.6 per cent. of titania. When extracted, the titania is a valuable white pigment which has become of considerable value as a paint because it is non-poisonous and is a good covering material. India is at present the largest producer of titanium-ore in the form of ilmenite.

IV. *Mica.*

The exhibits of muscovite mica—A, B, C—show the size of some of the natural crystals of ruby mica obtained from the mica belt of Bihar. India is the greatest producer of the best quality mica. As in the case of the Quartz crystals, Beryl Ore and Ilmenite, practically the entire production of mica in India is exported.

7. M. MAHFUZ-UL HAQ.

Specimens of Calligraphy.

(1) A *Waqf* copied by Mir 'Alī al-Kātib, the court calligraphist of the Timurids of Persia (died about 957 A.H.).

(2) A *Waqf* copied by Mir 'Alī al-Husaynī, a celebrated calligraphist of the 16th century.

(3) A *Waslī* signed by Sultān 'Alī of Mashhad who is acknowledged to have brought the art of *Nasta'liq* calligraphy to its highest perfection (died about 921 A.H.).

(4) A *Waslī* transcribed by Mālik ad-Daylamī, the teacher of Mir 'Imād, the greatest of calligraphists of Persia.

(5) A *Waslī* transcribed by Saiyyid 'Alī al-Ḥusaynī who came to India at the instance of the Emperor Shāhjahān to train Aurangzib in the art of calligraphy. The Emperor conferred on him the title of *Jawāhir Raqam*. The *Waslī* is dated Isfahān, 1058 A.H.

(6) A *Waslī* transcribed by Muḥammad Qāsim, a well-known Persian calligraphist of the 16th century.

(7) A *Waslī* copied by 'Abdur Rashīd ad-Daylamī, the teacher of Prince Dārā Shikūh. The *Waslī* contains a well-known Quatrain of 'Umar Khayyām.

(8) A *Waslī* copied by 'Abdur Raḥīm, *Shīrīn Qalam*, the celebrated calligraphist, on whom the Emperor Jahāngir conferred the title of *'Ambarīn Qalam*. The *Waslī* is dated 1025 A.H.

(9) A *Waslī* copied by Darwish, the celebrated *Shikasta* calligraphist of Persia.

(10) A *Waslī* copied by Muḥammad Fā'iq, a calligraphist of the time of the Emperor Aurangzib.

(11) A *Waslī* copied by Mansā Rām, a well-known calligraphist of Lucknow.

(12) A specimen *Tughrā* calligraphy, dated 1057 *Hijra* (1646 A.D.).

(13) A *Waslī* copied by Parem Sukh, a calligraphist of Lucknow.

8. ROYAL BOTANIC GARDEN, CALCUTTA.

I. Hybridisation and vegetative propagation of rare plants of the Royal Botanic Garden, Calcutta.

Hybridisation and vegetative propagation in order to increase the stock of rare plants of the garden form an important feature of the horticultural activities of the Royal Botanic Garden, Calcutta. Some very fruitful results have been obtained from experiments recently performed at the Garden. A few of these instances are exhibited here.

(1) Some Ferns (*Adiantums*) of garden origin :

- (i) X *Adiantum fimbriatum* (Hort.) X (*Adiantum excisum* Kze. X *Adiantum tenerum* Sw.)—1937 Garden hybrid of the Royal Botanic Garden, Calcutta.
- (ii) *Adiantum tenerum* Sw.
- (iii) *Adiantum tenerum* Sw. var. *Farleyense*.
- (iv) A new sport of garden origin with erect fronds and much smaller leaflets developed from *Adiantum tenerum* in 1929.

The fern was originally introduced to this garden from Barbados years ago. This beautiful fern has been propagated in the garden on a wide scale since then, and a gallery composed of this fern is a lovely sight indeed.

(2) Some specimens of vegetative propagation from leaf :

- (i) *Gasteria acinacifolia* Haw. (A succulent). Single specimen of this South African plant was under cultivation in the garden for a very long time. No attempt has hitherto been made to propagate the plant. Successful propagation from leaf cutting was made last year. The specimen shows young leafbuds developing from the old leaf grown in silver sand.

- (ii) *Gaenera refulgens* (Hort. X?) is another delicate plant, on which successful experiment to propagate by means of root and leaf cutting has been made. The specimen shows a group of young buds growing from the leafbase and another set of buds developing from the root below.

(3) *Growing of Cactus from seeds :*

Cactus are generally propagated from cuttings of cladode, division of rooted offsets and also from the seeds as usual. Growing of these characteristic succulent xerophytes from seeds is by no means an easy task. It needs considerable manipulations and prolonged observations and patient work. Purchase of these rare plants from foreign countries is expensive and associated with much troubles. Therefore experiments to grow them from seeds had to be undertaken in the garden. A few living specimens grown from seeds are exhibited:

- (i) *Ferocactus latispinus* Britt. and Rose. Seeds were obtained in 1939. Plants one year old.
- (ii) *Echinocactus Leninghausii* K. Schum.
- (iii) *Echinocactus saglionis* Cels.
- (iv) *Echinocactus tubiflorus* Z. et D. (Hort.).

Seeds of the three above species were obtained from Germany in 1937. Plants three years old.

II. *An illustrated volume of 'Plantae Asiaticae Rariores' by Dr. Nathaniel Wallich, F.R.S., and his correspondence relating to the collection from 1815-1816.*

Dr. Nathaniel Wallich, F.R.S., originally surgeon to the Danish Settlement at Serampore for 30 years, held the charge of Superintendent, Royal Botanic Garden, Calcutta. Dr. Wallich was an able and most energetic botanist, who during the earlier part of his term of office organised collecting expeditions into the remote and then little known regions of Kumaon, Nepal, Sylhet, Tenasserim, Penang and Singapore. Dr. Wallich, in fact, undertook a botanical survey of a larger part of the Indian Empire. The materials (in the shape of dried specimens of plants) thus accumulated were taken by Dr. Wallich to London; after being named there by himself and by other botanists, they were distributed in numbered collections to the leading botanical institutions in Europe. Besides distributing these enormous collections, Dr. Wallich was enabled, through the munificence of the Honourable Company, to publish under the title 'Plantae Asiaticae Rariores', three superb volumes illustrated by coloured figures of a high degree of excellence. Dr. Wallich retired in 1846 and died in 1854.

Dr. Wallich's correspondence is embodied in 18 volumes from 1794-1829. One of these, from 1815-1816, and one volume of his 'Plantae Asiaticae Rariores' are exhibited.

III. *Investigation on the origin of 'Aguru-scent' in the woody tissue of Aquilaria agallocha Roxb. by Drs. S. R. Bose and K. P. Biswas.*

The well-known scent *Aguru* is manufactured from a gummy substance produced by the action of fungus—*Fungi Imperfecti*,

inside the woody tissue of the Aguru tree—*Aquilaria agallocha* Roxb.—a tree of Assam forests. This fungus enters the plant through a damaged part of the tree often caused by breaking of branches. Dr. S. R. Bose has been successful in isolating and making pure culture of the fungus in artificial media in his laboratory. Nature of the fungus mycelia producing Aguru gum is shown under the microscope. Young plants of Aguru have been successfully raised in the garden from seeds. One of these plants together with a specimen of wood containing the gum is also exhibited.

9. SCHOOL OF TROPICAL MEDICINE.

Mounted sheets of medicinal and poisonous plants.

1. *Artemisia brevifolia* Wall.
2. *Artemisia maritima* Linn.
3. *Vicia sativa* Linn.
4. *Holarrhena antidysenterica* Wall.
5. *Artemisia absinthium* Linn.
6. *Inula racemosa* Hook.
7. *Plantago psyllium* Linn.
8. *Digitalis purpurea* Linn.
9. *Digitalis lanata* Ehrh.
10. *Rauwolfia serpentina* Benth.
11. *Jurinea macrocephala* Benth.
12. *Colchicum luteum* Baker.
13. *Crocus sativus* Linn.
14. *Saussurea lappa* Clarke.
15. *Aconitum heterophyllum* Wall.

10. ZOOLOGICAL SURVEY OF INDIA.

I. Fishes: Exhibit No. 1.—Panel from the Fish Gallery of the Indian Museum showing illustrations of some indigenous and exotic fishes used in the Control of Mosquitoes in India.

Several devastating diseases of man, such as Malaria, Filaria, Yellow Fever, etc. are transmitted through the agency of mosquitoes, and it is, therefore, of paramount importance to be able to control their numbers, and especially of the speckled-winged species, the Anophelines, which are responsible for the spread of Malaria. Several agencies have been employed in all tropical countries to combat the mosquito nuisance, and various types of fishes have been found useful in this connection. The small, hardy and rapidly breeding species of larvicidal fish feed actively on their larvae and pupae, while the algivorous forms reduce the available food materials of the mosquito larvae.

The species of fish illustrated on this panel represent some of the better known forms, both indigenous and exotic, which have been used in India for mosquito control. Of the indigenous species, the 'Top Minnows'—*Panchax*, *Aplocheilichthys* and *Aphanius*—are the most suitable, while the 'Carp Minnows'—*Puntius*, *Laubuca*, *Esomus*, *Branchydanio*, *Rasbora*, etc.—are also useful. Other small fish, such as *Badis*, *Ambassis*, *Macropodus*, *Ctenopoma*, *Anabas* and *Colisa*, are also known to feed on mosquito larvae. Finally the young of practically all fish devour mosquito larvae.

Of the exotic species, the 'Barbados Millions', *Lebistes reticulatus*, and the 'Top Minnow', *Gambusia affinis holbrokii*, have been imported into India. The former did not flourish under Indian conditions, but considerable stocks of the latter are now available in different parts of the country.

Exhibit No. 2.—Panel from the Fish Gallery of the Indian Museum showing illustrations of the principal types of poisonous fishes (mostly marine) of India.

Fish form a very popular and essential part of the diet of various classes. The roe, milt, liver, other internal organs and even the flesh of certain species, especially during the breeding season, contain toxic substances chemically allied to the toxins of the poisonous mushrooms. Such toxins, when taken with the food, attack the nerves of the stomach walls, causing violent spasms of that organ and shortly afterwards of other muscles of the body. The spasms are very often followed by a state of collapse and sometimes result in death in from one to six hours. No antidote is known, but administration of strong emetics with suitable stimulants to prevent collapse are recommended to counteract the poison.

Among poisonous fishes, particular attention may be directed to Puffers, Globe- or Balloon-fishes (Tetraodontidae), Porcupine-fishes (Diodontidae), Box- or Trunk-fishes (Ostraciontidae), Trigger-fishes (Balistidae), File-fishes or Leather-jackets (Monacanthidae), Wrasses (Labridae) and Parrot-fishes (Scaridae). The flesh of Puffers and Porcupine-fishes is always more or less poisonous, even when cooked, and should be strictly avoided. In Wrasses and Parrot-fishes the flesh is usually wholesome, but becomes dangerous when these fishes have been feeding on poisonous mussels, echinoderms, polyps, etc.

It may be added that owing to their very rich fat contents the roes of some of our highly prized food fishes, when eaten in excessive quantities, stimulate conditions of ptomain poisoning by producing violent purging and vomiting.

Various kinds of poisonous fishes illustrated on the panel are remarkable in possessing very gaudy colours, extraordinary forms and other structural peculiarities.

Exhibit No. 3.—Two pictures from the Fish Gallery of the Indian Museum showing attachment of eggs and buccal incubation in fishes.

Fishes normally spawn in water without in any way caring for the progeny. In a few cases, however, the parents look after and nourish the young.

In *Oryzias melastigma* (♀) and *Kurtus gulliveri* (♂) the eggs, after extrusion, become attached to the body of one of the parents by means of thread-like structures; while in *Platyistacus aspreto* (♀) and *Syngnathoides biaculeatus* (♂) the ventral surface becomes spongy during the breeding season and the eggs are carried attached to it. In a variety of fishes the eggs are incubated in the mouth, generally by the female, but in some species, such as *Arius jaitus* and *Osteogobius militaris*, the male performs this duty.

II. Corals : Exhibit No. 1.—Some of the more common types of corals occurring in the Indian Littoral.

Some of the more common types of corals occurring in the Indian Littoral: 1. Stag-horn Coral, 2. Platform Coral, 3. Brain Coral, 4. Mushroom Coral, 5. Fan Coral, 6. Organ-pipe Coral, 7. Precious Coral, and 8. Soft Coral are exhibited here. They are all of animal origin, and the exhibits represent the skeleton of the various species, a skeleton which the body of the animal invests in life in a variety of ways. In the Soft Coral the skeleton is very minute and is in the form of calcareous rods of various designs. The exhibits convey a very poor idea of the living coral colonies at the sea bottom, but in Exhibit No. 2 are shown the brilliant natural colours of living corals as seen on reefs in the shallow parts of our coasts and archipelagoes.

Exhibit No. 2.—(a) Picture of the reefs skirting the Maldive Islands showing living corals in their natural colours.

Picture of the reefs skirting the Maldive Islands showing living corals in their natural colours. Dead coral rocks may be seen jutting out of the water in the background.

Exhibit No. 2.—(b) Picture of a coral garden at the bottom of the sea showing corals and marine animals.

Picture of a coral garden at the bottom of the sea showing various types of corals and associated marine animals. In this picture may be seen the tree-like horny red-coral in the upper half, the cake-like mushroom coral at the right hand left corner, the olive-grey soft coral in the centre, the gaping giant clams with their fleshy coloured mantle showing along the sinuous gape of the thick shell-valves, and the sea-anemone with the expanded green tentacles at the lower end.

III. A pest of cauliflowers from Dhappa near Calcutta.

This moth, *Prodenia littoralis* Boisd., is a serious pest of cauliflower, tobacco, castor, jute, etc. and recently did great deal of damage to the cauliflowers and other vegetables grown at Dhappa near Calcutta. Various stages of the life-cycle are exhibited.

Eggs of the pest laid in clusters on leaves are covered with buff-coloured hairs derived from the body of the female moth. The eggs hatch after three or four days into small blackish-green larvae. After about three weeks the full-grown larvae burrow into the earth two inches below the soil and pupate. The adult moth emerges in about a week's time. The whole life-cycle takes about a month to be completed.

Control.

- (a) Hand-picking of egg masses and batches of young larvae before these spread to fresh areas;
- (b) Segregating affected area by narrow steep-sided trenches to prevent the spread of caterpillars; and
- (c) Destroying adult moths by light traps before they copulate and lay eggs on unaffected crops.

IV. *Wooden Effigies (Ghandāo of the Kaffirs of the Hindukush Mountains).*

The Kaffirs (called so by their Moslem neighbours) live in the valleys of the Hindukush mountains and speak archaic forms of the Indo-Aryan language and are divided into two distinct groups—the Red and the Black Kaffirs.

They are both longheaded and light skinned, many of whom possessing blue eyes and light brown hair. Their religion has many similarities with that of the Rk Veda; but at the present time, with the exception of the villages of Kunisht in the Rambur, and Brimatol in the Bamboret valleys of Chitral, the rest have all been converted to Islam.

One of their customs is the practice of erection of wooden effigies in memory of the dead.

The erection of the Effigies takes place in the following manner:—

A year after death in the beginning of autumn, when the leaves begin to fall, the Effigy (Ghandāo) is put up, usually by the son, when a great feast takes place and several bulls and goats are killed. The Effigy is first dressed in red clothes and is brought to the dancing platform (Parai) in the morning, and men and women drink milk and wine and dance, (with the exception of children and the widow of the dead), singing songs in praise of the dead. After the dance the Effigy is carried by all the villagers in the evening to the Muteh Muh (the place where the Effigies are placed) and put up there.

The Effigies are only put up by the Red Kaffirs.

The two figures exhibited here were procured from the village of Rambur by the expedition sent by the Z.S.I. in 1929. They represent a man, riding a horse and a woman wearing the characteristic horned headdress (Jōh) of the Red Kaffir women.

V. *Human Remains from an Ancient Cemetery of the Mauryan Period at Ujjain (Rajputana).*

A large number of human remains have recently been unearthed by the Archaeological Department of the Gwalior State in the course of excavations at a Mauryan site at Kumhar Tekri near Ujjain. This is the only place in India where human remains belonging to the Historical Period have so far been found, with the exception of the skeletons discovered by Sir John Marshall at the Dharmarajika Monastery at Taxilla.

As calculated from long bones the ancient Ujjain man appeared to be of tall stature and his headshape was long. The eyebrow regions were very well developed in some cases, and the nose highly pitched. Compared however to the ancient Taxilla man, the vault of the cranium was lower and the cubic capacity much smaller.

The great development of the posterior parts of the skull so characteristic of the big-brained races of the Indus Valley and Sumeria during Chalcolithic times, is not found among the Ujjain and Taxilla men of the Historical Period.

The specimen exhibited here represents one of the best preserved male skulls from Ujjain.

11. ROYAL ASIATIC SOCIETY OF BENGAL.

I. *Some interesting Manuscripts with paintings, etc., from the Persian Section of the Society's collection.*

(1) *Shāh Nāma*.—A valuable old copy of the great work of Abu'l-Qāsim Ḥasan Firdausī, died A.H. 411 (A.D. 1020). It is written

calligraphically and contains several curious miniature paintings finished in the Tātār style.

(2) *Ā'in-i-Akbarī* by Abu'l-Faql 'Allāmī, containing a description and a statistical account of the Moghul Empire under Akbar. Two full-page miniatures in the beginning. About 300 years old.

(3) *Bādshāh Nāma*, Vol. II, by 'Abdu'l-Ḥamid Lāhūrī. It contains the history of Emperor Shāh Jahān's reign, comprising the years A.H. 1047-1057 (A.D. 1638-1647).

Copied by Muḥammad Ṣāliḥ al-Kātib. Bears an autograph of the Emperor Shāh Jahān (A.H. 1037-1069, A.D. 1628-1659).

(4) *Amīr Nāma* by Basāwan Lāl, surnamed Shādān of Bilgrām, containing a biography of an Afghān chief, Amīru'd-Daula Muḥammad Amīr Khān.

Copied in A.H. 1251 (A.D. 1835) by Khairiyat Khān. Contains several pictures.

(5) *Tarjuma-i-Mahābhārata*.—A translation of the Mahābhārata, different from the well-known version prepared in Akbar's time. Probably prepared by a Hindū gentleman.

About 150 years old. Contains several pictures.

II. A few old Arabic Manuscripts from the Society's collection.

(1) *Kitāb al-Qirā'āt as-Sab'a*.—A work on the seven recognised schools of the different ways of reciting the text of the Qur'ān. The MS. is incomplete both at the beginning and at the end. On fol. 4 the author states that he studied at Baghdād under Ibrāhīm bin Aḥmad al-Kharqī in A.H. 372 (A.D. 983). Many words are written without diacritical marks. On the other hand, the letters *rā*, *dāl* and *ṣād* often have a dot under them, and letter *sīn* has three dots. It was apparently written in the 11th Century of the Christian era.

(2) *Al-Madkhal*.—A critical work on Ḥadīth (Sayings of the Prophet) and on different theoretical matters connected with the study of the subject by Aḥmad bin al-Ḥusain al-Baihaqī, died A.H. 458 (A.D. 1066). Apparently no other copy of this work is known. The MS. is dated A.H. 635 (A.D. 1238). At the last fol. it bears the hand-writing of the famous traditionist Ibn Ṣalāh, died A.H. 643 (A.D. 1245).

(3) *Al-Jam' Bayn as-Ṣaḥīḥain*.—A very rare work on the Sayings of the Prophet. It is a combined edition of the two most authentic works on Ḥadīth called *al-Jāmi' as-Ṣaḥīḥ* of al-Bukhārī and *as-Ṣaḥīḥ* of Muslim. The author of the work is Abū 'Abdullāh Muḥammad bin Abi Naṣr al-Andalusī, died A.H. 488 (A.D. 1095). It was transcribed at Damascus in A.H. 642 (A.D. 1245).

(4) *At-Tahdhīb fī Tafsīr al-Qur'ān* by Abū Sa'īd al-Muḥsin al-Baihaqī, died at Mecca in A.H. 491 (A.D. 1101). It is a detailed commentary on the Qur'ān. The MS. is dated A.H. 674 (A.D. 1275).

(5) *Al-Ikhtisār wa'l Taḥrīd*.—An abbreviation and partly a revised edition of a work on Ḥadīth called *al-Jam' bain as-Ṣaḥīḥayn*. The author of this abridgement is Abū 'Abdullāh Muḥammad bin Uṭhmān as-Shāfi'ī. It is an autograph copy, completed in A.H. 728 (A.D. 1328).

III. A number of old Sanskrit Manuscripts belonging to the Society's collection.

(1) Circa 7th-8th Century.

(i) Kubjikāmata (A.S.B. VIII. 5804).

(2) *Circa 10th Century.*

(i) *Maitreyavyākaraṇa* (A.S.B. I. 14). Copied in *Gopāladeva Samvat* 57.

(3) *Circa 11th Century.*

(i) *Samputodbhavakalparāja* (A.S.B. I. 62). Copied in N.S. 145 (1025 A.D.).

(ii) *Pratiṣṭhāpaddhati* (A.S.B. III. 2465). Copied in N.S. 211 (1091 A.D.).

(iii) *Yuddhajayārṇavatāntra* (A.S.B. VIII. 6110). Copied in N.S. 217 (1097 A.D.).

IV. *Some Tibetan books of interest from the Society's collection.*(1) *Four immortal Taoists.*

These are the pictures of the Chinese Taoist immortals, who possessed supernatural powers, and could change their forms in any way they liked.

Fig. 150 shows one man on the back of a mule representing *Chang Ko Lao*. He is the Grand Minister of the Emperor *Yao* (2357–2255 B.C.). The woman standing behind *Chang Ko Lao* in the picture is *Ho Sien Ku*, a famous female Taoist immortal, who lived in the time of *Tang* dynasty (A.D. 684–705).

Fig. 149 of the picture represents *Lu Tung Pin*, who could fly in the air. He was born in A.D. 755. The next man represents *Han Chong Li* who lived in A.D. 1101–26. These four people mentioned above belong to the eight immortals of Chinese Taoists.

(2) *Tibetan book written in gold.*

This is a holy book written in gold on Transcendental wisdom, or *Aṣṭasāhasrikāpraviṇāpāramitā* and is composed of eight thousands of the dharma. It is a favourite holy book of the Tibetans who show particular reverence to it as it is written in golden ink.

(3) *The Feast of Peaches.*

A picture of *Pantao* festival of *Hsi Wang Mu*, the Western Royal Mother or Queen of the West Air. At the birthday of the Queen all the gods and goddesses, the immortals, the dragon kings, and their followers assemble and make offerings to the Queen.

V. *The Society's Publications in 1939.*(1) *Journal:—*

(a) Letters, (b) Science, (c) Year-Books.

(2) *Bibliotheca Indica:—*

(a) Arabic and Persian.

(b) Sanskrit.

(c) English Translations.

(3) *Proceedings, Indian Science Congress.*(4) *Catalogues of Manuscripts:—*

(a) Arabic collections.

(b) Sanskrit collections.

VI. Some recent publications by members of the Society.

1. Sir John Marshall and A. Foucher. The monuments of Sanchi, Vols. I, II and III, Calcutta, 1939.
2. Raghuribir Sinh: Indian States and the new Regime.
3. Raghuribir Sinh: Sapta Dip, 1939.
4. Raghuribir Sinh: Malwa me Yugantar, 1939.
5. Raghuribir Sinh: Sesh Smritiyan, 1939.
6. Sir S. Radhakrishnan: Mahatma Gandhi, 1939.
7. Sir S. Radhakrishnan: Eastern Religion and Western Thought, London, 1939.
8. S. K. Chatterji: Bhasa Prakas Bangla Vyakaran, Calcutta, 1939.
9. L. S. Dugin: Les Contes du Perroquet, Paris, 1939.
10. J. B. Chaudhuri and Mrs. R. Chaudhuri: Sanskrit Poetesses, Part A, 1939.
11. Bimala Churn Law: Kausambi in ancient Literature, 1939.
12. Bimala Churn Law: Rajagriha, Delhi, 1938.
13. K. Biswas and C. C. Calder: Handbook of Common Water and Marsh Plants, 1939.
14. R. P. Chanda and J. K. Majumdar: Selections from Official Letters and Documents relating to the Life of Raja Rammohun Ray, Vol. I, 1939.
15. S. M. Bose: The Working Constitution in India, Oxford, 1939.
16. J. P. Mills: The Rengma Nagas, London, 1937.
17. J. Ph. Vogel: Buddhist Art in India, Ceylon and Java, Oxford, 1936.
18. O. C. Gangoly: The antiquity of the Buddha Image.
19. K. N. Dikshit: Excavation at Paharpur, Bengal, 1938.
20. B. L. Bhatia: Protozoa; Sporozoa, London, 1938.

ANNUAL REPORT FOR 1939.

The Council of the Royal Asiatic Society of Bengal has the honour to submit the following report on the state of the Society's affairs during the year ending the 31st December, 1939.

Before commencing the report proper the Council desires to place on record the great loss which the Society suffered during the year by the untimely death of His Excellency the Right Honourable Michael Herbert Rudolph Knatchbull, G.C.S.I., G.C.I.E., M.C., Baron Brabourne, Governor of Bengal. For the space of one short year he was not only the Society's gracious Patron but also one of its most esteemed Ordinary Members. Requiescat in pace.

During the year under review the most important event to record was the re-organisation and overhauling of the work of the Society as a result of which considerable changes have taken place in the administration and staff. It was felt for some time past that there was a general slackness both in the daily routine work and publications of the Society which had caused dissatisfaction among its members and well-wishers. To enquire into these a Special Enquiry Committee of nine was appointed by the Council on the 27th of Feb., 1939 under the Chairmanship of Sir John Lort-Williams, Kt., K.C., with Dr. Baini Prashad, D.Sc., F.N.I., F.Z.S., F.R.S.E., F.R.A.S.B., as its Secretary. This Committee met 15 times and after strenuous labours lasting for 5 months submitted its final report which was unanimously adopted by the Council at its meeting held on August 10, 1939. After reviewing the entire work of the Society during the last 20 years the Committee came to the conclusion that the system of administration disclosed clear evidence of serious and fundamental defects which had undoubtedly caused damage to the Society, and recommended a return to the practice of having an Honorary General Secretary with two paid whole time Assistant Secretaries, one in charge of the intellectual work and the other that of the office and the business side of the Society's activities. Its other recommendations dealing with the organisation of the office, co-ordination of the scales of pay and definition of the duties of each member of the staff, publications both with regard to the arrears and the regularity of the appearance of the Journal and the Memoirs, the immediate and urgent necessity of repairing a

large number of valuable rare books and manuscripts in the collection of the Society, the installation of steel shelves for housing them, the preparation of scientific catalogues of the Society's books and manuscripts, Finance, and a scrutiny of the Rules and Regulations of the Society, etc. are discussed below in the various sections dealing with these heads.

Mr. Johan van Manen, C.I.E., F.R.A.S.B., who had held the office of General Secretary since 1923 resigned on June 30, 1939, and Dr. B. S. Guha, M.A., A.M., Ph.D., F.N.I., F.R.A.S.B., was appointed General Secretary from the 1st of July, 1939. Mr. J. R. Seal, M.B.E., was confirmed in his appointment as Asst. Secretary from the 1st of July, 1939 for a period of five years, on a monthly salary of Rs.300 and was placed in charge of the office and the business interests of the Society. The appointment of a second Asst. Secretary in charge of the intellectual activities could not be made immediately owing to heavy financial commitments that the Society was compelled to undertake in carrying out the recommendations of the Special Enquiry Committee.

Ordinary Members.

Gains and Losses.—These were as follows during the year:—

<i>Gains.</i>		<i>Losses.</i>	
Elections carried forward ..	1	Elections carried over ..	7
New elections ..	28	Deaths ..	5
		Resignations ..	16
		Rule 40 ..	5
TOTAL ..	29	TOTAL ..	33

Initial total 390; net loss 4; final total 386.

Rule 38.—This Rule, dealing with members whose subscriptions are in arrears, was strictly applied and the names of four members were removed from the roll for this cause.

Membership List.—The customary detailed checking of the membership lists with the membership card index was made at the end of the year.

Non-resident Members.—Their total at the end of the year was 103.

Life-members.—The total of our Life-members has remained the same, namely 54; one was lost by death and one has newly compounded.

Deaths.—Amongst the distinguished and especially valued members lost to us, whose memory will be cherished, and for whose departure the Society is the poorer, the following may be mentioned:—

1. Lord Brabourne, (1938).
2. W. R. Ciper, (1887).

Associate Members.

The following new Associate Members were elected:—

1. Rev. William Pettigrew.
2. Miss Maude Lina West Cleghorn.

The present number stands at 6, the statutory maximum is 15.

Special Anniversary Honorary Members.

Our ten Special Anniversary Honorary Members have remained the same.

Institutional Members.

No new accessions to this class were enlisted. Their number is 12.

Ordinary Fellows.

At the Annual Meeting held on the 6th February, 1939, the following members were elected Ordinary Fellows:—

- Dr. C. S. Fox.
Dr. B. S. Guha.

We lost through death the following Ordinary Fellow:—

- Rev. P. O. Bodding, (1926).

At the end of 1939 the number of Ordinary Fellows was 46; the statutory maximum is 50.

Honorary Fellows.

The following were elected Honorary Fellows:—

- Sir S. Radhakrishnan, Kt.
Prof. Dr. Heinrich Leuders.
The Most Hon. the Marquess of Zetland.
Sir Jadunath Sarkar, Kt.

One Honorary Fellow was lost by death:—

- G. A. Boulenger, (1916).

The number at the end of the year was 22; the statutory maximum is 30.

Condolences.

The Council sent letters of condolence to the relatives of the following:—

- His Excellency Lord Brabourne, Governor of Bengal.
Dr. Walsper Horn, and
Sir Abdul Kerim Ghuznavi.

Council.

The Council met 15 times. The attendance averaged 14.

The following resolutions of thanks were passed by the Council:—

To Sir John Lort-Williams for services rendered to the Society and hard work performed by him as Chairman of the Special Enquiry Committee.

To all the Members of the Special Enquiry Committee for the extremely satisfactory manner in which they carried out the unusually arduous duties imposed on them by the enquiry—a task which involved a considerable amount of time and labour.

To Lt.-Col. Barwell for a donation of Rs.100 to the Library Endowment Fund.

To the outgoing Members of Council for the way in which they have served the true interests of the Society during the period of their Council Membership.

Office Bearers.

Changes in the Council were as follows:—

Dr. B. S. Guha was appointed Acting General Secretary from 25-4-39 to 1-7-39, *vice* Mr. Johan van Manen, General Secretary placed on special duty.

Mr. Johan van Manen, General Secretary resigned with effect from the 30th June, 1939, and Dr. B. S. Guha was appointed General Secretary from the 1st July, 1939.

Mr. H. C. Chakladar was appointed Anthropological Secretary with effect from 1-7-39, *vice* Dr. B. S. Guha.

Dr. B. S. Guha, Acting Honorary Treasurer from 1-4-39 to 25-4-39, *vice* Mr. Percy Brown, absent.

Dr. Bains Prashad, Acting Honorary Treasurer from 25-4-39 to 1-10-39, *vice* Mr. Percy Brown, absent.

Dr. Bains Prashad, Acting General Secretary from 7-10-39 to 26-11-39, *vice* Dr. B. S. Guha, absent.

Absences other than those mentioned above were:—

Maharajadhiraja of Burdwan, absent from June to 1st week of October.

Sir John Lort-Williams, absent from August to the beginning of December.

Lt.-Col. Barwell, absent from the middle of August to November.

Dr. J. N. Mukherjee, absent from 10-5-39 to 15-6-39.

Sir U. N. Brahmachari, absent from 15-5-39 to 24-6-39.

Committees of Council.

The Standing Committees of Council, namely, the Finance, Publication, and Library Committees, met monthly, with the exception that the last two committees did not meet in the recess month of October.

A Special Enquiry Committee consisting of Sir John Lort-Williams (Chairman), Dr. Bains Prashad (Secretary), Dr. M. N. Saha, Dr. S. P. Mookerjee, Dr. J. N. Mukherjee, Dr. C. S. Fox, and the *ex-officio* members, to enquire into the general administration and cultural activities of the Society—and to submit to the April Meeting of Council a detailed report with recommendations, if any, for effecting necessary improvements and also

to report on the alleged discrepancies between Rules and Regulations on the one hand and existing procedure and practice of the Society on the other.

The following sub-committees were appointed:—

(1) A sub-committee consisting of Dr. S. K. Chatterjee, Dr. M. Hidayat Hosain, and the General Secretary to frame suggestions for submission to Council regarding a proposal for instituting an Indian Academy of Arts and Letters.

(2) A sub-committee consisting of Dr. Baini Prashad, Dr. M. Hidayat Hosain and the General Secretary to consider the purchase of Persian and Arabic MSS.

(3) A sub-committee consisting of Col. R. N. Chopra, Sir U. N. Brahmachari and Major C. L. Pasricha to put up proposals before the Council with regard to the resuscitation of the Society's Medical Section.

Finance Committee.

The Finance Committee met on dates different from, and a few days prior to, those of the Council Meetings.

One Special Meeting was held in December to frame the budget for 1940.

Office.

The office organisation of the Society received the very close and careful attention of the Special Enquiry Committee. It was found that a general lack of system, co-ordination and supervision had affected the staff and considerably reduced its efficiency. Hitherto no serious attempt had been made to co-ordinate the scales of pay, or to maintain adequate establishment records, and thus to ensure a contented and harmonious office establishment. After carefully considering the length of service, age, capabilities, duties and general character of each member of the staff, the Committee recommended, and the Council sanctioned, the following posts:—

- (a) An Assistant Secretary (to be increased later to two).
- (b) Librarian.
- (c) Press Clerk.
- (d) General Clerk.
- (e) Cashier.
- (f) Steno-typist.
- (g) Typist.
- (h) File-clerk and Despatcher.
- (i) Pandit.
- (j) 2nd Pandit.
- (k) Maulvi.
- (l) 2nd Maulvi.
- (m) Sino-Tibetan Clerk.

Menials.

- 5 Daftries.
- 1 Jamadar.
- 1 Darwan.
- 4 Peons.
- 5 Bearers (plus 1 temporary).
- 3 Sweepers.
- 1 Bill Collector.
- 1 Mali.

The Committee also defined the duties to be allotted to each post. In addition the Committee recommended the preparation of an Office Manual, and the maintenance of service books and annual confidential reports.

The adoption of the Committee's recommendations entailed the retirement of the Librarian, B. L. Dutt, who had served for about 28 years, and the retrenchment of M. M. Khan, despatcher, who had served for nearly two years. The former was granted a gratuity of six months' pay in addition to his Provident Fund accumulations, and the latter a gratuity of two months' pay.

Revised scales of pay as under, were introduced, to take effect from the 1st January, 1940.

- | | |
|---|----------------|
| (a) Librarian .. | Rs. 150—10—250 |
| (b) Senior Clerical Grade .. | Rs. 100— 5—150 |
| Press Clerk, | |
| General Clerk, | |
| Cashier. | |
| (c) Junior Clerical Grade .. | Rs. 50— 3— 80 |
| Steno-Typist, | |
| 2nd Maulvi, | |
| 2nd Pandit, | |
| File-clerk and Despatcher, | |
| Typist, | |
| Sino-Tibetan Clerk. | |
| (d) Special Indological Appointments .. | Rs. 75— 5—125 |
| Pandit, | |
| Maulvi. | |

No change was made in the existing scales of pay of the menial staff. For the typist, who had served for nine years on the maximum of his grade without any advance, a personal allowance of Rs.10 per mensem was sanctioned.

With regard to the Assistant Secretary, in charge of the Office and business activities of the Society, the present incumbent, Mr. J. R. Seal, M.B.E., was confirmed in his appointment from the 1st July, 1939, the date from which Mr. Johan van Manen resigned, for a period of five years, on Rs.300 a month, and a

contract specifying the conditions of his appointment, and including a clause regarding termination of service on three months' notice on either side, was executed.

Correspondence.—The number of outgoing letters issued was 4291, and 3393 were received. The Special Enquiry Committee found that in the past a large amount of correspondence had either remained unanswered, been mislaid, or had been kept in 'pending' files. Under their direction those items on which effective action could be taken have received attention, and the remainder correctly filed. It can be stated now with satisfaction that all current correspondence is being adequately and expeditiously dealt with.

Stock-rooms.—On the recommendation of the Special Enquiry Committee it was decided to replace the old wooden racks in the stock-room by modern steel-shelving as also in the south portion of the Office and throughout the Library. The work was commenced in November and the installation in the main stock-rooms is now almost completed.

General.—No other changes of importance in regard to the Office took place, and the routine work in respect of distribution of the Society's publications, addresses, card register, circulars and forms requires no special comment except that the distribution of Journals, etc. to neutral countries was held up for some time after the outbreak of war in September owing to the necessity, under censorship regulations, of obtaining books of permits for their transmission through the post.

Rules and Regulations.

This matter was fully considered by the Special Enquiry Committee who found that no amendments to the Rules are necessary. The Regulations, however, were found to require both amendments and amplifications—a duty which, under the Rules, devolves on the Council. The Special Enquiry Committee, as recorded in detail under 'Publications' in this report, drew up revised regulations regarding the submission of communications for publication. It also recommended the formation of a Special Bibliotheca Indica Committee and defined its aims and objects. The Committee also found that Rule 48(f) had not hitherto been strictly adhered to in the past and it defined the correct procedure to be followed in future with regard to the preparation of the Annual Report.

Indian Science Congress.

From the beginning of the year under review the administration of the Indian Science Congress was taken over by that body. There were a number of matters connected therewith which had to be dealt with during the earlier months of the year

by the Society in its capacity as the former managing agency of the Congress, but these had all been completed by the end of April, 1939, with the exception of the issue of the Proceedings, Part II, Presidential Addresses of the 26th Indian Science Congress, Lahore, which were published before the end of June, 1939.

Representations.

Indian Museum.—The Society's representative on the Board of Trustees of the Indian Museum, under the Indian Museum Act, X of 1910, continued to be Rai Sir Upendra Nath Brahmachari Bahadur, Kt., who was re-appointed for a further period of three years.

Kamala Lectureship.—The Society's nominee to serve on the Election Committee of the Kamala Lectureship, administered by the Calcutta University, was Dr. Baini Prashad.

National Institute of Sciences of India.—The Society's representatives to serve on the Council of the National Institute of Sciences of India were Rai Sir Upendra Nath Brahmachari Bahadur, Kt., and Sir Bryce Burt.

Deputations.

The Society received invitations to send representatives to the various functions of the undermentioned bodies :—

Bicentenary Celebration of the Royal Swedish Academy at Stockholm. The Council invited Prof. Sten Konow to represent the Society.

Selection Committee for the appointment of a University Professor of Anthropology, Calcutta University. Council's nominee was Dr. B. S. Guha but in case Dr. Guha be nominated by some other body then Rai Bahadur Ramaprasad Chanda.

Seventh International Congress of Genetics at Edinburgh in August, 1939. The Council invited Sir Thomas Holland, Lt.-Col. Grieg and Lt.-Col. A. D. Stewart to arrange amongst themselves for a suitable representation of the Society at the Congress.

Indian Historical Records Commission at Calcutta on 15-12-39. The Council invited Dr. D. R. Bhandarkar, Dr. U. N. Ghoshal and Dr. R. C. Majumdar to represent the Society.

The Eighteenth International Geological Congress to be held in London in 1940. The Council invited Dr. A. M. Heron to represent the Society.

The Fiftieth Anniversary Celebration of the Catholic University of America. The Council sent the usual good wishes of the Society.

Congratulations.

The Society sent its cordial congratulations to the following :—

To Bt.-Col. R. N. Chopra for the distinction conferred upon him by the Belgian Society for Tropical Medicine in Antwerp.

Visits.

An appreciable number of distinguished visitors came to the Society. Amongst them were scholars from Japan, France, the United States of America, Syria and Turkey, and also the Library Training Class.

A large number of members of the Indian Historical Records Commission, Calcutta, 1939, visited the Society in December, and a special display of the Society's historical possessions was made for their inspection.

H.E. the Governor of Bengal.

The incoming Governor of Bengal, His Excellency Sir John Arthur Herbert, G.C.I.E., graciously accepted the invitation extended to him to accept the Office of Patron of the Society.

Social Functions.

No social functions were held by the Society during the year.

The Society continued the practice of providing light refreshments to the Members and visitors present before the Ordinary Monthly Meetings.

Awards.

Elliott Prize for Scientific Research.—The annual prize offered for the year 1937 was for research in Physics. Three candidates submitted papers. The Trustees recommended that none of the essays submitted was of sufficient merit to be awarded the prize.

The prize offered for the year 1939 was for Geology and Biology (including Pathology and Physiology). An announcement regarding the prize will be made at the Annual Meeting of 1940.

The prize for next year, 1940, will be for research in Mathematics.

Barclay Memorial Medal.—The (biennial) award of the Barclay Memorial Medal for conspicuous contributions to Medical and Biological Science with reference to India, for 1939, will be announced at the Annual Meeting of 1940.

Sir William Jones Memorial Medal.—The next (triennial) award of the Sir William Jones Memorial Medal for Asiatic Researches in Science will be announced at the Annual Meeting of 1941.

Annandale Memorial Medal.—The next (triennial) award, for important contributions to the study of Anthropology in Asia, will be announced at the Annual Meeting of 1940.

Joy Gobind Law Memorial Medal.—The triennial award of the Joy Gobind Law Memorial Medal for 1938, for conspicuously important work on Zoology in Asia, was announced at the Annual Meeting of 1939. The medal was bestowed on Dr. Baini Prashad, Director, Zoological Survey of India.

The next (triennial) award will be announced at the Annual Meeting of 1942.

Paul Johannes Brühl Memorial Medal.—The (triennial) award for important contributions to the study of Asiatic Botany for 1937 of the Paul Johannes Brühl Memorial Medal (deferred from previous year) was announced at the Annual Meeting of 1939. The medal was bestowed on Sir David Prain, Kt., F.R.S., late Director, Royal Botanic Gardens, Kew, Surrey, England.

The next (triennial) award will be announced at the Annual Meeting of 1942.

Indian Science Congress, Calcutta, Prize.—The next award will be made in connection with the next session of the Congress to be held in Calcutta.

Pramatha Nath Bose Memorial Medal.—The Council has not as yet decided on the year in which the initial award of the Pramatha Nath Bose Memorial Medal for conspicuously important contributions to practical or theoretical Geology with special reference to Asia shall be made.

Society's Premises and Property.

A sum of Rs.2,000 was set aside during the year for credit to the Building Repair Fund. The Special Enquiry Committee made recommendations in respect of this Fund and the Building Fund to which further reference is made under the head of Finance later on in this report.

General repairs to the office premises were carried out by Messrs. Martin & Co. at a cost of Rs.4,441-1-0.

A new lavatory in the compound for the use of the Staff was installed by Messrs. J. B. Norton & Co., Ltd., at a cost of Rs.985-4-0. The same firm also put in a small stand pipe for unfiltered water for flushing the external drains at a cost of Rs.331-12-0.

A new table was acquired for the Joint Philological Secretary and one of the existing tables was renovated for Prof. Chintaharan Chakravarti. The members' retiring room and lavatory were furnished with new curtains, and a screen for the same room was also provided, together with a brass plate 'Members Only'. In the main hall the plaster plaque 'Sir William Jones translating Sakuntala' was remounted on a suitable stand and re-painted. A revolving stand was provided for the historical letter of James Prinsep to Dr. W. H. Mill in which he announced his epoch-making discovery of the decipherment of the Brahmi Script of the Asokan Edicts and presented to the Society by the latter's grandson, Dr. Clement C. J. Webb.

With regard to the busts in the main Hall and on the landing a re-arrangement was made, the pedestals were re-painted, marble plaques bearing the names and dates were affixed where these did not already exist, and all the existing names were re-lettered in black. The two marble plaques at the entrance door were cleaned and re-lettered. This work was satisfactorily carried out by Messrs. Llewellyn and Co.

Artistic and Historical Possessions.

An original letter of historical value of James Prinsep, which has been referred to under 'Society's Premises and Property' was received through the courtesy of Dr. Clement C. J. Webb, the grandson of Dr. W. H. Mill, to whom the letter was addressed, and who was a Vice-President of the Society from 1833-1837.

Through the courtesy of His Excellency Sir John Herbert, G.C.I.E., Governor of Bengal, and Patron of the Society, the famous Bhowal copper-plate of Lakshmana Sena was brought back from the India office to the Society after an absence of over one hundred years. The Society is not only indebted to its gracious Patron, but also to Dr. Nalini Kanta Bhattasali and Dr. H. R. Randle for their share in having brought about this desirable result. The following notice, which appeared in the public press, was prepared by the Society as a record of this historic event :—

The Sunday Statesman. November 26, 1939.

RETURN OF FAMOUS COPPER-PLATE.

CALCUTTA CEREMONY.

Governor brings Tablet from England.

An interesting ceremony took place yesterday at Government House, Calcutta, when His Excellency Sir John Herbert received a deputation from the Royal Asiatic Society, Bengal, consisting

of Sir David Ezra and Dr. Baini Prashad, and formally handed over to the Society the famous Bhowal copper-plate of Lakshmana Sena.

This plate, which until very recently had been considered irretrievably lost, was brought out from the India Office by Sir John Herbert, who undertook the mission on account of the delay and risks in transmission due to the war.

After receiving the plate Sir David Ezra said:—

‘On my own behalf and on behalf of the Council of the Royal Asiatic Society of Bengal I am very grateful to Your Excellency for bringing out the Bhowal copper-plate from England. The Society feels greatly honoured by the deep interest taken by Your Excellency and I hope that under your kind patronage the Society will continue to flourish.’

HISTORY.

A history of the plate is given below.

Mr. Walters, who was Magistrate of Dacca during the early part of last century, obtained a copper-plate of Lakshmana Sena—the Bhowal plate—from Golucknaraia Rae, and presented it to the Asiatic Society, Calcutta. This presentation was announced at the May meeting of the Asiatic Society of 1829, and a reference to it was included in the proceedings of the Society for that month published in ‘Gleanings in Science’, and also in the ‘Calcutta Gazette’, dated May 14, 1829. Presumably the plate was taken to England by Mr. H. H. Wilson, who was the Secretary of the Asiatic Society up to 1832, and who, after his retirement, was appointed Librarian of India House.

No further reference to the plate has been traced until 1875 when a short account of it was published by Navinachandra Bhadra in his ‘Bhoyaler itihasa’, 1875. In 1927 Dr. Nalini Kanta Bhattasali gave full details about it in an article in the Indian Historical Quarterly’.

The plate was thought to have been lost until June of this year when Dr. H. N. Randle, Librarian of the India Office, published an account of some copper-plates which he had discovered in a safe in the India Office, and suggested that one of these was presumably the lost Bhowal plate.

Dr. N. K. Bhattasali immediately directed the attention of the Royal Asiatic Society of Bengal to this discovery. The Society thereupon raised the question of ownership with the Library authorities at the India Office, who, after investigation of all the available evidence, admitted the Society’s claim.

Meanwhile, owing to the war, it was not considered safe to send the plate out to India, Sir John Arthur Herbert, then Governor-designate of Bengal, however, offered to bring it out with him, and through his kindness it has now been received

back in Calcutta. This is of particular importance as scholars will now be able to have early access to the plate itself, and check the reading of the inscription, photographs of which, together with a critical account are being published in 'Epigraphica Indica'.

Mr. Walter's account of the find-spot of the plate is as follows:—'About thirty miles north of the city of Dacca, a few miles above the site of the ancient fortress of Akdala, and a short distance from the banks of the river Luckiah, is situated Mowza Rajabary, appertaining to the pergunah Bhowal, and included in the modern division of "thannah" Jamalpore. At this place, on the crest of a low hill, stands an ancient building called Moggee's Mut (Maghir Matha). About forty years ago (i.e. about 1790) the accompanying copper-tablet was dug up by a Koonch ryot, at a short distance from the "mut". It was conveyed to the Bhowal zemindar, Luckhenarain Rae, from whose son, Golucknarain Rae it has now been obtained'

DESCRIPTION OF PLATE.

It is a single plate measuring 13½ by 12 inches, weighing 7 lbs., and having 59 lines incised upon it, 30 on the obverse and 29 on the reverse. A projection from the top edge, in the shape of an inverted shield or heart, carries the usual Sena device, the image of Sadasiva, 3 inches in diameter, fixed by a stout central bolt almost ½ inch in diameter which projects about ½ inch on the reverse

The deed was issued by the 'Maharajadhiraja Ariraja-Madanasankara' Lakshmanasenadeva (lines 28 and 57-8). The name of the place of issue has been doubtfully read in the Madhainagar grant as Dharyyagrama. In the present plate it is again doubtful (line 24). The grant is dated the sixth day of the month Karttika in the (regnal) year 27, and was executed by Sabkaradhara, the 'Gauda-Mahasandhivigrahika' as 'duta' (lines 57-59).

It is a conveyance of land to Padmanabhadeva Sarman Pathaka The motive of the gift is to win merit for the 'Mahadevi' (Queen) . . . padevi and the 'Mahadevi' Kalyanadevi (line 48).

The land conveyed consists of two adjacent estates, of the annual value of 400 'kapardakapuranas', in the Paundravardhana bhukti.

The date of the inscription, if Lakshmana Sena's reign was c. 1170-1200 A.D. must be fixed at c. 1197 A.D., and therefore very near the time of his overthrow by Muhammad Bakhtiyar.

Library.

The Library of the Society as being one of the best reference libraries in India is undoubtedly one of its greatest assets but

unfortunately its general condition was found by the Special Enquiry Committee to be far from satisfactory. Proper accession registers had not been kept and no stock-taking had been done during at least the last twenty-five years. The existing catalogues of printed books also were neither scientifically prepared nor comprehensive. In the Sanskrit and Arabic and Persian Sections, however, registers had been maintained, but owing to lack of knowledge of scientific methods of preservation of MSS. and the absence of regular periodical cleaning and examination, the pages of the MSS. had in many cases stuck together and some were attacked by worms. In the Tibetan and Chinese section of the Library it was found that although a large number of valuable MSS. and xylographs exist, nothing had been done since Mr. P. Ghosha's time, either to keep complete records, or to give them the care and attention necessary for their proper preservation.

The Committee also found that the existing wooden almirahs and shelves were not suitable for housing and preserving the valuable collections of the Library.

The Committee, therefore, recommended the following measures for adoption :

- (a) The replacement of wooden furniture by modern steel equipment for which, together with the provision of similar steel furniture for the office and stock room, an estimate of Rs.22,495, was sanctioned;
- (b) The appointment, on probation for one year, of a qualified Sino-Tibetan Clerk;
- (c) The revision of the existing authors catalogue, and the preparation of subjects and titles catalogues;
- (d) The maintenance of:—
 - (i) An Accession Register for all accessions,
 - (ii) A Register of Periodicals,
 - (iii) A Distribution List of the Society's publications;
- (e) The provision of an additional menial staff of bearers for cleaning; the purchase of modern and efficient insecticides and preservatives; and the employment of better cleaning materials;
- (f) The re-binding of all works which are damaged and moth-eaten, especially the valuable and rare books on art, architecture and scientific memoirs containing coloured plates and photogravures of great importance in the south room of the Library; and the provision in the Annual Budget of an additional allotment for this purpose;
- (g) An effort should be made to augment the Library Endowment Fund; and the possibility of selling some of the art possessions, after taking expert advice, should be considered.

In accordance with the recommendations of the Special Enquiry Committee, the Librarian, Babu Balai Lal Dutt, B.A., retired in September of this year after serving for about 28 years, and Mr. P. O. Matthai, M.A., who since his appointment in 1926 had been holding the post of Head Clerk of the Society, was appointed in his place. Immediately after his appointment, Mr. Matthai was entrusted with the task of taking stock of the printed books of the Library in addition to his daily routine work. Mr. Matthai has since been engaged in stock-taking and it is hoped that his detailed report on the state of the Library will be ready by the middle of the coming year. The Assistant Pandit who has been working hitherto as Assistant Librarian has been helping the Librarian in his routine work and will continue to do so until the stock-taking is completed.

Permanent Library Endowment Fund.—This Fund received a further donation of Rs.100 from Lt.-Col. N. Barwell during the year. The total invested capital in 3½% Government Paper remains at a face value of Rs.14,000. The accumulated interest, together with the donation received, will permit the purchase of additional paper to the value of Rs.1,600 early next year.

Accessions.—The accessions to the Library during the year, exclusive of about 200 periodicals received either by exchange or purchase, numbered 294 volumes out of which 121 were purchased and the remainder were received by presentation. The allocation for the purchase of books and periodicals for the year was Rs.2,500 but actually Rs.2,595-7-6 were spent.

Binding.—The Society has in its possession a large number of extremely valuable and rare books on art, architecture, archæology and science containing priceless photogravures and coloured plates. On the recommendation of the Special Enquiry Committee, the Council sanctioned a special sum of Rs.4,000 for getting them bound and repaired and during the months ending in December 1939, 150 of these were bound and repaired at a cost of Rs.2,238-10-0. The remaining volumes will be similarly treated during the coming year. The allocation for binding was Rs.500 for the English Section of the Library.

Sanskritic Section :

In accordance with the recommendations of the Special Enquiry Committee particular attention has been paid during the year to the cleaning, preservation and repair of the old decaying MSS. Altogether 487 MSS. were cleaned and 109 damaged ones were repaired.

A fairly large number of MSS. have been made use of by scholars both in the rooms of the Society and outside. The number of MSS. lent during the year was 13. On some of the more important MSS. communications dealing with their characteristic features were made in the Monthly Meetings of

the Society. The full use made of our MSS. by scholars however cannot be estimated as the Society possesses no records to show the number of MSS. used by authors in their publications. In lending out our MSS. to scholars it would be well to stipulate in future that the use made by them of our MSS. should be formally acknowledged and copies of publications sent to the Society.

Islamic Section :

During the year the work of binding and repairing the MSS. was continued and 48 MSS. were bound making a total of 1324 bound MSS. in the possession of the Society.

One MS. was acquired during the year at a cost of Rs.10. Additions were made to our collection of reference books dealing with Persian and Arabic MSS. A number of bibliographical works of reference was purchased during the year.

Finance.

In reviewing the position of the Society with regard to its finances the Special Enquiry Committee adopted two lines of investigation, namely consideration of (a) the existing method of controlling expenditure and presenting the accounts, and (b) possible methods of increasing revenue and effecting savings.

The Committee were of opinion that sufficient attention had not been paid for some years to the desirability of increasing the Permanent Reserve Fund. This point has now been taken up and in the Budget for 1940 provision has been made for transferring Rs.5,000 from surplus funds as a result of considerable saving owing to the abolition of the post of the paid General Secretary.

With regard to the grants received by the Society from the Governments of India and Bengal the Committee found that prior to 1925 each fund was charged with the amounts of relevant expenditure in detail. After that year the practice had been to charge lump sums under the head 'Proportionate Share of Funds'. A levy of a similar kind had been made against the Publication Fund for a number of years. The Committee recommended that a definite policy should be adopted for the future with regard to levies on any of these funds. In the case of those financed from Government Grants levies of about 33% of the annual amounts should be sanctioned as a general policy. With regard to the Publication Fund the Committee recorded its opinion that all sale proceeds and subscriptions to the *Journal* and *Memoirs* should, as originally intended, be credited to the Fund. The amount to be debited to this Fund with regard to the publications of the Society should definitely be for that

purpose only. Any balance not spent on the publication of the *Journal* and *Memoirs* during the year should be re-credited and not absorbed in the general temporary reserve.

The Committee recommended that the Building Fund and the Building Repair Fund be amalgamated; that the interest derived from all the Medal and Prize Funds, as well as the Provident Fund, should be credited to the respective funds and not kept in suspense account; that a Dead Stock Account and a Profit and Loss Account should be maintained; that the present form of the Publication Fund Account should be changed, and in the Personal Account only arrears of subscriptions not realized but which are likely to be realized during the next year should be shown, whilst the amount realized each year, both as Members' subscriptions and as subscriptions to the *Journal* and *Memoirs*, should be credited separately, the former to the general income of the Society and the latter to the Publication Fund. A separate account for each Fund of the Society must be maintained. As the adoption of these recommendations during the currency of the year's accounts would have given rise to certain technical difficulties, they will be given effect to fully from 1940.

The Committee found that the Rules of the Society do not definitely assign the duty of the preparation of the accounts to any particular officer, and it, therefore, recommended that this should devolve on the Honorary Treasurer. It also defined the procedure that should be followed in their preparation.

Appendix III contains the usual statements showing our accounts for 1939. No change has been made in the form of their presentation.

One statement, still carried over, is :

Statement No. 17. International Catalogue of Scientific Literature, London.

The other statements are presented as in the previous year.

As usual the Fund Accounts show the invested assets written down to their market values as at the end of the year and Investment Account No. 24 shows the allocation of invested paper to each fund specifically, whilst both market and face values of the investments are shown.

Statement No. 26 shows the Balance Sheet of the Society and the different funds administered by and through it.

The funds belonging to or administered by the Society may be classified as follows :—

(a) General Fund:—

- (i) Permanent Reserve.
- (ii) Working Balance.

- (b) Specific Funds belonging to the Society.
- (c) Funds administered by the Society.

At the end of the year, the position of these funds, as compared with their position at the end of 1938, was as follows :—

		Face value. 31st Dec., 1938.	Market value. 31st Dec., 1938.	Face value. 31st Dec., 1939.	Market value. 31st Dec., 1939.
		Rs.	Rs.	Rs.	Rs.
1. General Fund	..	2,97,700	2,93,000	2,83,000	2,51,000
(a) Permanent Reserve	..	2,54,200	2,49,500	2,54,200	2,22,200
(b) Working Balance	..	43,500	43,500	28,800	28,800
2. Specific Funds belonging to the Society	..	81,000	81,000	74,000	74,000
3. Funds administered by the Society	..	43,800	43,300	45,400	41,200
		4,22,500	4,17,300	4,02,400	3,66,200

During the year Rs.640 were received as admission fees. This amount will be transferred to the Permanent Reserve in the usual manner by conversion of Government paper (3½%) belonging to the Temporary Reserve.

The Government of Bengal maintained the 20% cut in all grants made by them to the Society during the year.

The Society received the following grants from that Government :—

For		Rs.	Statement.
Journals	..	1,600	1
O.P. Fund No. 1	..	7,200	2
Sanskrit MSS. Fund	..	2,880	4
		11,680	

The Government of Bengal annual grant, of Rs.2,400 for publication of works of historical interest for the year 1938-39, as well as that for 1939-40, was realized.

Owing to the large number of works published during the year, with a resultant heavy outlay on printing, binding and editing fees, Oriental Publication Fund No. 2, (Statement No. 3), closed with a debit balance of Rs.3,144-15-1.

The Government of India grant for Arabic and Persian MSS., (Statement No. 5), was reduced to Rs.2,500 this year. Representations have been made for its restoration to the original sum of Rs.5,000 and it is hoped that these will be successful. As a result of this reduction the Fund was in debt to the extent of Rs.1,417-1-3 at the close of the year.

The income derived from advertising amounted to Rs.9,600.

The temporary investments of funds in Fixed Deposit and Savings Bank are shown in Statement Nos. 22 and 23.

Statement No. 20 gives an account of the amounts due to and by the Society for membership subscriptions, sales of publications and contingent charges.

The Government Securities shown in Statement No. 24 are held in safe custody by the Imperial Bank, Park Street Branch. During the year there was a considerable depreciation of the securities amounting to Rs.29,921-8-0, decreasing to that extent the book assets of the Society.

The budget estimates for 1939 and the actuals of the year were as follows :—

Estimates.				Receipts.	Expenditure.
				Rs.	Rs.
Ordinary	..	..	..	56,650	56,650
Extraordinary	..	..	..	650	650
TOTAL				57,300	57,300
Actuals.					
Ordinary	..	..	..	59,297	63,245
Extraordinary	..	..	..	448	448
TOTAL				59,745	63,693

The ordinary income was about Rs.2,647 more than the estimate.

The sum of Rs.6,595 was expended above the estimate.

The budget estimates for probable expenditure have as usual been framed to meet demands under various heads based on vigorous activity in all departments of the Society's work.

The receipts have been conservatively estimated.

BUDGET ESTIMATE FOR 1940.

Ordinary Receipts.

	Budget Estimate for 1939.	Actuals for 1939.	Budget Estimate for 1940.
	Rs.	Rs.	Rs.
Interest on Investments and Deposits	10,000	10,012	10,000
Advertising	1,000	1,050	750
Rent	9,800	9,850	10,200
Annual Grant	9,900	10,715	10,680
Miscellaneous	1,600	1,600	1,600
Members' Subscriptions	200	260	300
Publications, Sales and Subscriptions	10,000	8,890	9,000
Proportionate Share of Funds	4,000	7,370	5,000
Indian Science Congress Contribution	7,000	7,000	4,500
Working balance for meeting arrears of Publications	600	..	..
	2,750	2,750	..
TOTAL	56,650	59,297	52,030

Ordinary Expenditure.

	Budget Estimate for 1939.	Actuals for 1939.	Budget Estimate for 1940.
	Rs.	Rs.	Rs.
Salaries	33,000	27,468	22,500
Commission	300	280	300
Stationery	400	727	550
Fan, Light and Telephone ..	700	660	700
Taxes	2,400	2,388	2,400
Postage	1,200	1,320	1,200
Contingencies	750	767	750
Petty Repairs	150	82	150
Insurance	500	500	500
Menials' Clothing	100	90	200
Office Furniture	500	485	500
Building Repairs	2,000	2,000	2,000
Provident Fund Share	700	701	800
Audit Fee	250	250	250
Books, Library	2,500	2,630	3,000
Binding, Library	500	2,518	1,000
Journal and Memoirs	10,000	8,197	7,000
Printing Circulars	700	980	700
Gratuities .. ..	..	11,127	..
Contribution .. ..	..	100	..
TOTAL ..	56,650	63,245	44,500

Extraordinary Receipts.

	Budget Estimate for 1939.	Actuals for 1939.	Budget Estimate for 1940.
	Rs.	Rs.	Rs.
By Fees			
by Admission Fees	650	448	650
by Compounding Fees .. ..	..	..	..
by Institutional Membership Registration Fees .. ..	..	..	..
TOTAL ..	650	448	650

Extraordinary Expenditure.

	Rs.	Rs.	Rs.
To Permanent Reserve			
by Admission Fees	650	448	650
by Compounding Fees .. ..	..	..	..
by Institutional Membership Registration Fees .. ..	..	..	..
TOTAL ..	650	448	650

Publications.

During the year the complete volume for 1938 (IV) of the *Journal* and *Proceedings* of the Royal Asiatic Society of Bengal consisting of four numbers of Letters and two numbers of Science (794 pages) was issued, as well as the Title page and Index to Vols. II and III. The *Year Books* for 1936 (196 pages), 1937 (138 pages) and 1938 (164 pages) bringing the series up-to-date, also appeared.

The *Proceedings* of the Twenty-fifth (Jubilee) Session of the Indian Science Congress consisting of Parts I-IV and preliminary matter (title pages, contents, etc.) making a total of 1,150 pages and 8 plates were published during the year. A reprint of the *Proceedings* of the Third Indian Science Congress consisting of 70 pages and 2 plates was issued.

With the publication of Part II of the *Proceedings* of the Twenty-sixth Session of the Indian Science Congress (360 pages and 2 plates) which appeared during the year our responsibility for printing further parts of the *Proceedings*, etc. of the Indian Science Congress Association ceased, the Association having taken on itself the complete charge of all of its activities.

During this year, especially the latter half, after the office had been reorganized, a great deal of time and energy was given to clearing up the arrears in the publications of the Society. In the course of the examination by the Special Enquiry Committee it was disclosed that a large number of works intended either for the *Journal* and the *Memoirs* or the *Bibliotheca Indica* Series had been lying in the press for many years in various stages of printing. The Committee prepared a list of these works (Appendix I—Annexures A and B of the Interim Report given in Appendix II) and recommended that immediate steps be taken to publish them. Of the ten items mentioned in Annexure A, which required further consideration, five were intended for the *Journal* and five for the *Bibliotheca Indica* Series. Of these the two papers on 'The Nagas in the III century A.D.' and 'Folklore of the Assamese' were referred again and found to be suitable for publication. They were accordingly sent to the press and will appear in Vol. V of the *Journal*. The article on the Commemoration Inscription and Cult Image of Annanta Vasudeva Temple was withdrawn by the authors and the remaining two papers on 'The Law of Alluvion and Diluvian' and 'Agriculture in Ancient India' were rejected on examination.

Of the works intended for the *Bibliotheca Indica* Series, Mr. Johan van Manen undertook to complete the English translation of *Vajjalagam*. Pandit Kedarnath of Jaipur City has now been entrusted with the task of revising and editing the Sanskrit edition of the *Tirthakalpa*. He is making satisfactory progress with this work and it is expected that it will be issued in 1940.

Prof. Raghu Vira of Lahore agreed to complete the work on *Vaikhānasaśrautasūtram* of Dr. W. Caland originally undertaken by Mr. Johan van Manen. The index is now ready and the book will soon be issued.

The concluding fascicle of the text of Vol. I of the *Haft Iqlīm* in Persian of Amin Ahmed Razi edited by Mr. A. H. Harley and Khan Bahadur Maulvi Abdul Muqtadir was revised by Prof. Mahfuz-ul Haq and appeared during the year. With its appearance Vol. I of the *Haft Iqlīm* is complete and the rest of the work to be issued in three volumes will be published in due course.

The third volume of the English translation of the *Ṭabaqāt-i-Akbarī* of the Khwāja Nizāmuddīn Ahmed in two parts and consisting of 814 pages appeared during the year. The manuscript of this volume was left by the late Mr. Brojendranath De, M.A., I.C.S. (Retd.). Dr. Baini Prashad, D.Sc., F.R.A.S.B., was invited to edit it and, after very carefully revising and comparing the MSS. with the original and after furnishing an extremely valuable introduction in which the life and work of the author and the importance of the *Ṭabaqāt* in Indian History is critically reviewed, saw the work through the press before the end of the year. With the publication of the index early next year the whole work will be completed.

Of the works mentioned in Annexure B, the following belonging to the *Bibliotheca Indica* Series appeared during the year.

(1) The *Āin-i-Akbarī* of Abu-l-Faḥl 'Alā'ī originally translated by H. Blochmann and revised by Lt.-Col. D. C. Phillott, Vol. I, 796 pages, 17 plates and 1 table (a reprint of the second edition).

(2) The English translation of the *Akbarnāma* of Abu-l-Faḥl by H. Beveridge, I.C.S. (Retd.), Vol. III, concluding fascicle of 112 pages.

(3) The Persian text of *Tārīkh-i-Shāhī* of Aḥmad Yādgar edited by Khan Bahadur Dr. Hidayat Hosain (complete work in 492 pages).

(4) Illustrated Manuscript of the *Rubā'iyāt* of 'Umar-i-Khayyām edited by Prof. M. Mahfuz-ul Haq (complete work).

(5) The Persian text of the *'Amal-i-Ṣāliḥ* edited by Prof. G. Yazdani. The concluding fascicle of Vol. III was issued during the year. With the publication of the index, which is in progress now, the whole work will be completed.

(6) Sanskrit text of the *Manu-Smṛti* with the *Manubhāṣya* of Medhātithi, edited by MM. Dr. Ganganath Jha, M.A., D.Litt., LL.D., Vol. I was already published and with the appearance of Vols. II and III this year (604 pages) the work is now complete.

(7) *Saundaranānda Kāvya* by Ārya Bhadanta Aśvaghoṣa edited by MM. Dr. Haraprasad Shastri, C.I.E., M.A., D.Litt., and reprinted with additions by Prof. Chintaharan Chakravarti, M.A. (complete work in 202 pages).

(8) *Āmatattvaviveka of Udayanācārya* edited by MM. Vindhyesvariprasada Dvivedin and Pandit Lakshmana Sastri Dravida—the concluding fascicle of 546 pages.

Of the remaining works mentioned in Annexure B the Tibetan work on 'A Lower Ladakhi Version of the Kesar Saga' is being seen through the press by Mr. Trin Chen and arrangements have been made for the revision and editing of the following works:—

(1) *Kuttanimatam*.—Pandit Madhusudan Kaul Sastri, the original editor of the work has agreed to revise and complete it (subject to the permission of the Kashmir Govt. of which he is an officer). The MSS. has accordingly been recalled from the press in which it has been lying since 1926 and it is hoped that the publication of the work will be possible during 1940.

(2) *Dharmabindu*.—The manuscript has been recalled from the press and entrusted to Prof. Chintaharan Chakravarti, M.A., for revision.

(3) *Avadana Kalpalata*.—Prof. D. C. Chatterjee, M.A., has been entrusted with the task of revising the work and it is expected that it will be published during next year.

(4) *Varṇa Ratnākara*.—Satisfactory progress is being made with this work. The text (with the index) prepared by Dr. S. K. Chatterji and Pandit Babua Misra is ready and after the printing of the English and Maithili Introductions the work will be published.

(5) The Tibetan work *Dowazangmo* was originally prepared by Mr. Karma Paul and arrangements have now been made with other Tibetan scholars to revise and edit the work and see it through the press.

With regard to the papers mentioned in Annexure B and intended for the *Journal* and *Memoirs* of the Society, the following have already been published in Vol. IV of the *Journal* namely:—

- (1) On Tamerlane.
- (2) Chinese connection with Africa.
- (3) Development of the Bengali Alphabet.
- (4) Yano-Dafla Grammar.
- (5) A Vocabulary of Mawkhen Salon, etc.

Steps have been taken to edit and publish the large monograph on the 'Wild Men of Tibet' which has been lying in the press for over a decade. Of the rest, namely the 'Arayankavu Landslip' and 'A new work on Tibetan Grammar', the type has been distributed as the gist of these papers was published elsewhere in the meantime.

The late Dr. P. O. Bodding's Memoir on 'How the Santals Live' required a thorough revision of the Zoological and Botanical

terms used. This has now been accomplished with the help of several scientists and the Memoir is expected to be issued at an early date.

The Memoir on a revised edition of *Mahāvvyutpatti* (Sanskrit-Tibetan-English Vocabulary) by Alexander Csoma de Körös has been lying incomplete for many decades although all the materials necessary for completing the work were available in the archives of the Society. Arrangements have now been made to revise and complete the work by Mr. Trin Chen and Prof. D. C. Chatterjee under the supervision of Prof. S. K. Chatterji, D.Lit., F.R.A.S.B., the Philological Secretary.

Catalogues.—Volume I of the *Descriptive Catalogue of the Arabic Manuscripts* dealing with the subjects of Qurān, Sunnite Tradition, Biographical Tradition of Muhammad, Shi'ite Tradition, Criticism of *Ḥadīth*es, and Sūfism, etc. prepared by W. Ivanow and revised and edited by Khan Bahadur Dr. Hidayat Hosain, Ph.D., F.R.A.S.B., has been published during the year.

Volume VIII, Pt. I, of the *Descriptive Catalogue of the Sanskrit Manuscripts* belonging to the Government but housed with the Society and dealing with the subject of Tantra prepared by the late MM. Dr. Haraprasad Shastri, C.I.E., D.Litt., F.A.S.B., and revised and edited by Prof. Chintaharan Chakravarti, M.A., consisting of 608 pages has been issued during the year. Satisfactory progress is being made with Part II of the volume which it is expected will be issued during 1940.

It will be seen from the above records that the number of publications issued during the year is unprecedented in the annals of the Society. All the works mentioned in Annexures A and B of the Interim Report of the Special Enquiry Committee have either been published or where this could not be done immediately effective steps have been taken for their revision and completion so that they can be printed without any unnecessary delay. This tremendous output in the publications of the Society has been made possible by the energetic and loyal co-operation of all members of the Staff. The help given by members of the Special Enquiry Committee must also be acknowledged gratefully. The great service rendered by its Secretary, Dr. Baini Prasad, D.Sc., F.R.A.S.B., needs however special mention as without his help and the labour that he so ungrudgingly gave in the cause of the Society it would have been impossible to accomplish this immense task so successfully.

The following are the works in the *Bibliotheca Indica* Series sanctioned previously in which satisfactory progress has been made during the year:—

- (1) *Doctrine of Nimbārka* : Translations of Nimbārka's and Śrīnivāsa's Commentaries on the Brahma-Sūtras, Vols. I and II.

This up to 320 pages has been printed during the year. It is expected to publish Volume I as early as possible.

- (2) *Lushai-English Dictionary*: This up to 128 pages has been printed during the year. It is expected to publish the work during next year.

A list of new works in the Bibliotheca Indica Series undertaken by the Society during the year is given below:

- (1) *Humāyūn Nāma* or *Qānūn-i-Humāyūn*, Persian,
- (2) *Tarikh-i-Humāyūn* of *Bāyazīd*, Persian,
- (3) *Bhagawat Gītā* in Persian verse,
- (4) *Maāthir-ul-Umarā*, English Translation.

The last is an old work left incomplete by Mr. H. Beveridge, of which three double fascicles were published (1911-1914). The Council has now requested Dr. Baini Prashad to complete it.

New Improvements.

In dealing with the large arrears in the publications of the Society the Special Enquiry Committee suggested that for more expeditiously dealing with, for better adjudication and improvement of the general standard of our publications, and for ensuring greater regularity in their appearance:—

- (a) the existing Publication Committee should be reconstituted with additional Secretaries for Archæology and Philosophy;
- (b) that it should meet at least a week before the meeting of the Council;
- (c) that there should be a Special Bibliotheca Indica Committee to deal with all publications intended for that Series;
- (d) that a new Section be added to our Journal for publishing reviews of important works on literature and science received for that purpose; and
- (e) that the official proceedings should be issued as advance proceedings after each Ordinary Monthly Meeting.

These recommendations were accepted by the Council and steps have been taken to give effect to them.

The Baptist Mission Press.

Under Mr. P. Knight's most capable superintendence, and ably assisted by Messrs. Norman A. Ellis and G. E. Bingham, the Baptist Mission Press continued to render the Society excellent service with regard to its printed work. The year was

one of intense activity in respect of publications and the Society is greatly indebted to the Press for the splendid manner in which it co-operated and dealt with the many calls made upon it.

Other Presses.

During the year two works *Āin-i-Akbari*, Vol. I, Blochmann's translation, and the *Manu-Smṛti*, Vols. II and III (Index of Verses), were completed through the agency of Messrs. Stephen Austin & Sons, Ltd., Hertford, and the Indian Press, Ltd., Allahabad, respectively. The estimates for these two works were accepted many years ago. As a matter of general principle the Council is of opinion that all printing work should ordinarily be carried out in Calcutta and should not be given to outside presses, thus avoiding considerable delay and unnecessary additional expenditure in respect of freight charges, insurance, etc.

Agencies.

Our European, American and Indian Agents remained the same throughout the year. An extension of the list for Asiatic countries is desirable.

Exchange of Publications.

During the year, the following applications for exchanges with the Society's publications were considered by the Council, and its decisions are noted against each of them :—

<i>Publications of :</i>	<i>To be exchanged with :</i>
Journal of Indian History, Madras ..	Journal.
Science Museum, London ..	Memoirs.
Jaina Siddhanta Bhaskara, Arrah ..	Journal.
State Public Library, Leningrad ..	Journal and Memoirs.
Afghan Academy, Kabul ..	Journal and Memoirs.
Stanford University, California, U.S.A.	Journal.
Oriental Publication Bureau and Dairat-ul-Maarif Press, Hyderabad, Deccan	Arabic and Persian works of Bibliotheca Indica Series.
Entomological Society of India ..	Journal.
National Library of Peiping, China ..	Journal.
Shibli Academy, Azamgarh ..	Arabic and Persian works of Bibliotheca Indica Series.
Annals of Oriental Research, University of Madras ..	Bibliotheca Indica.

Meetings.

The Ordinary Monthly Meetings of the Society were held regularly every month, with the exception of the recess month of October. The recorded average attendance was 13 members and 3 visitors. The maximum attendance was in July with 21 members and 5 visitors.

No meetings of the Medical Section were held during the year.

Exhibits.

At the Ordinary Monthly Meetings a number of exhibits were shown and commented upon by the exhibitors. The following may be mentioned :—

- A. M. Heron: Mica with inclusions.
- Chintaharan Chakravarti: MS. of a Tantra work on the cult of Pañcāṇaṣa.
- S. L. Hora: Two new Exhibits in the Fish Gallery of the Indian Museum.
- Eileen W. E. Macfarlane: Marriage Symbols from the West Coast of India.
- B. S. Guha: 'Simphak'—The Bark Cloth of the Garos of Assam and a photograph of the late Rev. Fr. H. Hosten, S.J.
- H. S. Rao: The King Crab.
- Sir David Ezra: A Chameleon.
- M. Hidayat Hosain: Humāyūn Nāma.
- Jhr. P. J. Eekhout: A Tibetan Banner.

Communications.

Apart from papers submitted both for reading and subsequent publication a number of communications, not intended for subsequent publication, were made from time to time in the Ordinary Monthly Meetings.

Amongst such communications the following may be mentioned :—

- Chintaharan Chakravarti: Society's collection of MSS. of works on the Science of Warfare in old India; A Tantric Story about the origin of Vijayanagar; and Sanskrit works of Sāhib Kaula.
- K. Biswas: The Rôle of the Common Algal Communities of the River Hooghly on the Drinking Water of Calcutta.
- B. Prasad: A historical Note about the Indo-Brahm or the Siwalik River and an Old Letter from James Prinsep.
- R. R. Mookerji: Two combined Pottery and Basketry Specimens from Upper Assam.
- Major H. Hobbs: J. A. Hicky 'Bengal Gazette—1780-82'.
- S. L. Hora: Observations on the Abundance of Hilsa Crop this year.

Philology.

Twelve papers read in previous years were published.

History.

Three papers read in previous years were published.

Five papers were read and published.

Three papers were read and will be published later.

Natural History : Biology.

One paper read in the previous year was published.

One paper was read and published.

Four papers were read and will be published later.

Anthropology.

Two papers read in previous years were published.

One paper was read and published.

Two papers were read and will be published later.

Archæology.

Two papers read in the previous years were published.

Increase of Cultural Activities.

The Special Enquiry Committee considered the question of the possible increase of cultural activities, and came to the conclusion that this could be effected in the following ways :—

For some time past no general lectures have been delivered. A series of these should be arranged to be given by distinguished scholars every year, and a provision of Rs.500 per annum should be made in the budget for this purpose. When funds are available from special endowment funds the question of instituting special lectureships should be considered.

The Committee also drew attention to the unique position which the Society holds in the world of culture and suggested that constant consideration should be given to the steps necessary to keep it in touch with bodies having similar objects and activities. This is all the more necessary owing to the number of learned societies which have been formed in recent years. One way in which the Society can achieve this object is to arrange periodically for joint meetings, discussions and conferences, under its auspices, with other learned societies.

Desiderata.

The year has seen many improvements in various directions effected, or put into the way of becoming effective. These have been reported on in the foregoing items. To fulfil adequately the aims and objects of the Society much remains to be done and there must be a continuance of that same devoted service, co-operation and assistance, which have been such marked characteristics of this venerable institution throughout its long career. Our building is an old one, it was completed in 1808, and will not last for ever. Our possessions are numerous, valuable, and in many cases old and unique. They require that

constant care and attention which must be of the best that can be procured. The question of providing an air-conditioned room for our most valuable and rare treasures, particularly MSS. and books, was considered by the Special Enquiry Committee, but had to be shelved for the present owing to the financial position of the Society. The income from our investments is far too small and every effort must be made to increase our permanent reserve. The amount available annually for the purchase of books for the Library is comparatively little, and we need a vastly increased Permanent Library Endowment Fund to cope with our needs for new accessions and proper care, binding and preservation of our existing books. Money is needed for the establishment of special lectureships and for general lectures.

The Council, therefore, whilst finishing this report with a note drawing attention to the most pressing of the Society's requirements, does so in the assured hope that it will not fail to receive the same ready response from the Society's members and well-wishers as it has invariably in the past.

[APPENDIX I.]

Membership Statistics.

(As calculated for December 31st, for 30 years.)

YEAR.	ORDINARY.							EXTRA-ORDINARY.					FELLOWS.			
	PAYING.				NON-PAYING.			Total Ordinary Members.	Centenary Honorary.	Associate.	Institutional.	Anniversary Honorary.	Total.	Grand Total Membership.	Honorary.	Ordinary.
	Resident.	Non-Resident.	Foreign.	Total.	Absent.	Life.	Total.									
1910 ..	209	217	16	442	43	23	66	508	4	14	..	..	18	526	27	17
1911 ..	200	225	19	444	53	22	75	519	3	14	..	..	17	536	28	19
1912 ..	203	229	19	451	43	23	66	517	3	13	..	..	16	533	27	24
1913 ..	200	211	19	430	46	23	69	499	3	14	..	..	17	516	27	23
1914 ..	191	187	19	397	50	26	76	473	3	14	..	..	17	490	24	27
1915 ..	171	188	21	380	40	25	65	445	3	15	..	..	18	463	29	31
1916 ..	145	159	18	322	60	25	85	407	3	15	..	..	18	425	26	33
1917 ..	150	144	15	309	45	24	69	378	2	12	..	..	14	392	22	35
1918 ..	153	145	17	315	43	24	67	382	2	10	..	..	12	394	22	39
1919 ..	141	128	15	284	64	25	89	373	2	11	..	..	13	386	18	36
1920 ..	161	134	15	310	32	26	58	368	2	11	..	..	13	381	28	38
1921 ..	160	132	16	308	26	26	51	359	2	12	..	..	14	373	28	40
1922 ..	160	141	16	317	26	26	52	369	2	13	..	..	15	384	30	39
1923 ..	147	120	13	280	30	27	57	337	2	11	..	..	13	350	28	37
1924 ..	209	134	12	355	29	28	57	412	2	12	..	..	14	426	27	37
1925 ..	263	137	12	412	23	27	50	462	2	12	..	..	14	476	26	34
1926 ..	319	162	20	501	23	28	51	552	2	12	..	..	14	566	25	34
1927 ..	328	167	18	513	28	33	61	574	2	13	..	..	15	589	28	38
1928 ..	344	167	23	534	42	46	88	622	1	12	..	..	13	635	28	40
1929 ..	331	181	21	533	36	49	85	618	1	10	2	..	13	631	27	43
1930 ..	291	194	37	522	22	52	74	596	1	8	2	..	11	607	29	47
1931 ..	228	184	29	441	26	52	78	519	1	8	5	..	14	533	29	46
1932 ..	222	126	23	371	27	54	81	452	1	7	5	..	13	465	28	45
1933 ..	194	126	27	347	33	56	89	436	..	7	6	..	13	449	26	49
1934 ..	217	112	30	359	26	57	83	442	..	6	7	12	25	467	26	47
1935 ..	206	107	28	341	28	56	84	425	..	5	7	11	23	448	24	44
1936 ..	214	106	24	344	16	55	71	415	..	5	10	11	26	441	21	46
1937 ..	205	99	29	333	20	55	75	408	..	5	12	10	27	435	19	49
1938 ..	193	98	21	312	24	54	78	390	..	4	12	10	26	416	19	45
1939 ..	187	103	21	311	21	54	75	386	..	6	12	10	28	414	22	46

[APPENDIX II.]

Publications for re-consideration by the Publication Committee.**ANNEXURE A.***Bib. Ind. English—*

1. Vajjalagam.
2. Tabaqat-i-Akbari, Vol. III.

Bib. Ind. Persian—

1. Haft Iqlim.

Bib. Ind. Sanskrit—

1. Tirthakalpa.
2. Vaikhanasasrautasutram.

Journal—

1. The Nagas in the III and IV Century A.D.
2. Folklore of the Assamese.
3. The Law of Alluvion and Diluvian.
4. Agriculture in Ancient India.
5. The Commemoration Inscription and Cult Image of Annanta Vasudeva Temple.

ANNEXURE B.**I. *Bib. Ind. English—***

1. Akbarnama.
2. Kesar Saga.
3. Ain-i-Akbari, Vol. I.

II. *Bib. Ind. Persian—*

1. Shahjahan Nama.
2. Tarikh Salatin Afaghina.
3. Rubaiyat of Umar-i-Khayyam.

III. *Bib. Ind. Sanskrit—*

1. Kuttanimatam.
2. Dharmabindu.
3. Avadana Kalpalata.
4. Atmatattvaviveka.
5. Saundarananda Kavya.
6. Varna Ratnakara.

IV. *Bib. Ind. Tibetan—*

1. Dowazangmo.

V. *Shams-ul-Ulama Hidayat Hosain : Arabic MSS. Catalogue*

1. 66 pages of page proof.
2. 144 notices for Vol. I.
3. Index to Vol. I.

VI. *Mr. C. Chakravarti : Sanskrit Catalogue, Vol. VIII to be completed.*

VII. *Proceedings 3rd Indian Science Congress. Reprint.*

VIII. *Year Books for 1936, 1937 and 1938.*

IX. *Journal—*

1. Wild Men of Tibet.
2. On Tamerlane.
3. The Aryankavu Landslip.
4. Chinese Connection with Africa.
5. A New Work on Tibetan Grammar.
6. A Vocabulary of Mawkhen Salon, etc.
7. Development of Bengali Alphabet.
8. Yano-Dafia Grammar.

X. *Memoirs.*

1. How the Santals Live.
2. Completion of the revised edition of *Mahavyutpatti*—Sanskrit-Tibetan-English Vocabulary—by Alexander Csoma de Kőrös, in Vol. IV of the *Memoirs*.

[APPENDIX IIA.]

List of Publications issued by the Royal Asiatic Society of Bengal during 1939.**(a) Bibliotheca Indica :**

	Price.		
	Rs.	As.	P.
<i>I. Sanskrit Works :</i>			
(1) Saundarananda Kāvya (Reprint), complete work (3 units)	3	0	0
(2) Atmatattvavivoka, Fasc. 6, concluding fascicle, (6 units)	4	8	0
(3) Manu-Smṛti, Volume II (5 units)	5	0	0
(4) Manu-Smṛti, Volume III (2 units)	2	0	0
<i>II. Arabic and Persian Works :</i>			
(5) Tārīkh-i-Shāhī, complete work (5 units)	5	0	0
(6) Ṭabaqāt-i-Akbarī, English Trans., Vol. III, Part I (5 units)	6	4	0
(7) Ṭabaqāt-i-Akbarī, English Trans., Vol. III, Part II (4 units)	5	0	0
(8) Akbarnāma, English Trans., Vol. III, Fasc. 14, concluding fascicle (2 units)	2	8	0
(9) Āin-i-Akbarī, English Trans. (Reprint), Volume I (26 units)	25	0	0
(10) Rubā'iyāt of 'Umar-i-Khayyām, complete work (59 units)	20	0	0
(11) Haft-Iqlīm, Volume I, Fasc. 3, concluding fascicle (2 units)	2	8	0
(12) 'Amal-i-Šāhī, Volume III, Fasc. 5, concluding fascicle (2 units)	2	0	0

(b) Journal and Proceedings (Third Series) :

Vol. III Year-Book for 1936 (13 units)	4	14	0
„ IV Letters No. 1 .. (10 units)	3	12	0
„ „ „ No. 2 .. (10 units)	3	12	0
„ „ „ No. 3 .. (11 units)	4	2	0
„ „ „ No. 4 .. (20 units)	7	8	0
„ „ Science No. 1 .. (1 unit)	0	6	0
„ „ „ No. 2 .. (6 units)	2	4	0
„ „ Year-Book for 1937 (9 units)	3	6	0
„ V Year-Book for 1938 (11 units)	4	2	0

Title-page and Index to Volumes II and III (Free to members).

(c) Miscellaneous :

(1) Descriptive Catalogue of Arabic Manuscripts in the collection of the Royal Asiatic Society of Bengal, Volume I	10	0	0
(2) Descriptive Catalogue of Sanskrit Manuscripts in the collection of the Royal Asiatic Society of Bengal, Volume VIII, Tantra, Part I	8	12	0
(3) Proceedings of the 25th Indian Science Congress Main Volume (Parts I to IV combined)	30	0	0
(4) Proceedings of the 26th Indian Science Congress, Part II, Presidential Addresses	9	6	0
(5) Proceedings of the 3rd Indian Science Congress, Reprint edition	2	10	0

Abstract Statement
of
Receipts and Disbursements
of the
Royal Asiatic Society of Bengal
for
the Year 1939

STATEMENT No. 1.

1939.

General

Income and Expenditure Account

			Rs.	As.	P.	Rs.	As.	P.
To ESTABLISHMENT :								
Salaries and Allowances	..	..	27,534	1	0			
Commission	..	..	299	4	6			
						27,833	5	6
GENERAL EXPENDITURE :								
Stationery	..	..	680	7	0			
Fans and Light	..	..	366	9	6			
Telephone	..	..	281	7	0			
Taxes	..	..	2,387	5	0			
Postage	..	..	1,385	14	3			
Contingencies	..	..	850	7	0			
Printing Circulars, etc.	..	..	1,020	2	0			
Audit Fee	..	..	250	0	0			
Petty Repairs	..	..	62	12	0			
Insurance	..	..	500	0	0			
Menials' Clothing	..	..	89	14	0			
Furniture	..	..	500	12	0			
Interest on Security Deposit	..	..	5	0	0			
						8,380	9	9
GRATUITIES	..	..	....			11,127	0	0
LIBRARY AND COLLECTIONS :								
Books	..	..	2,595	7	6			
Binding	..	..	2,238	10	0			
						4,834	1	6
STEEL SHELVING	..	..	....			5,980	0	0
PUBLICATIONS :								
Journal and Proceedings	..	..	....			6,990	6	6
CONTRIBUTION :								
Provident Fund for 1939	..	..	701	1	9			
R.A.S. China	..	..	100	0	0			
						801	1	9
						65,946	9	0
TRANSFER TO—								
Building Repair Fund Account	..	..	....			2,000	0	0
SUNDRY ADJUSTMENTS :								
Bad debts written off	..	..	1,190	2	0			
Depreciation, Investments revalued on 31st December, 1939	..	..	29,921	8	0			
						31,111	10	0
BALANCE AS PER BALANCE SHEET	..	..	....			2,50,988	6	6
						3,50,046	9	6

STATEMENT No. 1.

Fund.

1939.

for the year to 31st December, 1939.

		Rs.	As.	P.	Rs.	As.	P.
By BALANCE FROM LAST ACCOUNT	2,93,175	8	4		

CASH RECEIPTS:

Interest on Investments	..	10,012	0	0			
Interest on Fixed Deposits	..	1,050	0	0			
Advertising	..	9,600	0	0			
Miscellaneous	..	253	10	3			
Government Grant	..	1,600	0	0			
Rent	..	10,650	0	0			
					33,165	10	3

PERSONAL ACCOUNT:

Members' Subscriptions	..	9,389	0	0			
Admission Fees	..	640	0	0			
Publications	..	6,676	6	11			
					16,705	6	11

TRANSFER FROM FUNDS:

Proportionate Share in General Expenditure—							
Oriental Pub. Fund (1) Account	..	2,500	0	0			
Sanskrit MSS. Fund Account ..	..	2,000	0	0			
Arabic and Persian MSS. Fund Account	..	2,500	0	0			
					7,000	0	0

STATEMENT No. 2.

1939.

Oriental Publication

From a monthly grant made by the Government of Bengal for the
Languages (Rs. 500), and for the publication
(Less 20% from the

	Rs.	As.	P.
Editing	103	8	0
To Printing	394	6	0
Proportionate Share in General Expenditure ..	2,500	0	0
Balance as per Balance Sheet	16,768	7	2
	<hr/>		
	19,768	5	2

STATEMENT No. 3.

1939.

Oriental Publication

From an annual grant made by the Government of Bengal of
Historical
(Less 20% from the

	Rs.	As.	P.
To Printing	8,571	10	9
Editing	1,118	11	9
Binding	399	6	0
	<hr/>		
	10,089	12	6

STATEMENT No. 4.

1939.

Sanskrit Manuscripts Fund

From an annual grant of Rs. 3,200 made by the Government of Bengal
by the Society ; and Rs. 3,600 from the
(Less 20% from the

	Rs.	As.	P.
To Cataloguing	1,200	0	0
Proportionate Share in General Expenditure ..	2,000	0	0
Purchase of books	21	8	0
Binding	1	8	0
Balance as per Balance Sheet	24,824	1	3
	<hr/>		
	28,047	1	3

STATEMENT No. 2.

Fund No. 1, in Account with R.A.S.B.

1939.

publication of Oriental Works and Works of Instruction in Eastern of Sanskrit Works hitherto unpublished (Rs. 250).
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	12,566	5	2
Annual Grant	..	..	7,200	0	0
			19,766	5	2

STATEMENT No. 3.

Fund No. 2, in Account with R.A.S.B.

1939.

Rs. 3,000 for the publication of Arabic and Persian Works of Interest.
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	2,144	13	5
Annual Grant	..	..	4,800	0	0
Balance as per Balance Sheet	..	..	3,144	15	1
			10,089	12	6

STATEMENT No. 4.

Account, in Account with R.A.S.B.

1939.

for the publication of the Catalogue of Sanskrit Manuscripts acquired same Government for Research Work.
1st of April, 1932.)

			Rs.	As.	P.
By Balance from last Account	..	..	25,167	1	3
Annual Grant	..	..	2,880	0	0
			28,047	1	3

STATEMENT No. 5.

1939.

Arabic and Persian Manuscripts

From an annual grant of Rs. 5,000 made by the Government of India for
by the Society; for the purchase of further Manuscripts,
Manuscripts found in

(Reduced to Rs. 2,500)

		Rs.	As.	P.	Rs.	As.	P.
To Purchase of Manuscripts	..	10	0	0			
Binding	.. ..	182	4	0			
Cataloguing	.. ..	2,400	0	0			
Reference Works	.. ..	100	13	6			
		<hr/>			2,693	1	6
Proportionate Share in General Expenditure	.. ..	....			2,500	0	0
					<hr/>		
					5,193	1	6
					<hr/>		

STATEMENT No. 6.

1939.

Barclay Memorial

From a sum of Rs. 500 odd given in 1896 by the Surgeon
encouragement of Medical

		Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39	.. ..	....			73	8	0
Balance as per Balance Sheet—							
Rs. 700, 3½% G.P. Notes, 1854-55..		613	6	0			
Surplus at date	.. ..	72	4	8			
		<hr/>			685	10	8
					<hr/>		
					759	2	8
					<hr/>		

STATEMENT No. 7.

1939.

Servants' Pension Fund

Founded in 1876 as the Piddington Fund

		Rs.	As.	P.	Rs.	As.	P.
To Pension	.. ..	....			132	0	0
Depreciation, Investments revalued on 31-12-39	.. ..	....			315	0	0
Balance as per Balance Sheet—							
Rs. 3,000, 3½% G.P. Notes, 1854-55		2,628	12	0			
Surplus at date	.. ..	865	6	8			
		<hr/>			3,494	2	8
					<hr/>		
					3,941	2	8
					<hr/>		

STATEMENT No. 5.

Fund Account, in Account with R.A.S.B.

1939.

the Cataloguing and Binding of Arabic and Persian Manuscripts, acquired and for the preparation of notices of Arabic and Persian various Libraries in India.

for the year 1939-40.)

		Rs. As. P.	Rs. As. P.
By Balance from last Account	1,276 0 3
Government Grant for 1939-40	2,500 0 0
Balance as per Balance Sheet	1,417 1 3

 5,193 1 6

STATEMENT No. 6.

Fund Account, in Account with R.A.S.B.

1939.

General, I.M.S., for the foundation of a medal for the and Biological Science.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	734 14 8
Interest realized for the year	24 4 0

 759 2 8

STATEMENT No. 7.

Account, in Account with R.A.S.B.

1939.

with Rs. 500 odd from the Piddington Fund.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,836 6 8
Interest realized for the year	104 12 0

 3,941 2 8

STATEMENT No. 8.

1939.

Annandale Memorial Fund

From donations by subscription,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39 .. ..	....			420	0	0
Balance as per Balance Sheet—						
Rs. 4,000, 3½% G.P. Notes, 1854-55	3,505	0	0			
Surplus at date	707	4	9			
				4,212	4	9
				4,632	4	9

STATEMENT No. 9.

1939

Permanent Library Endowment

From gifts received,

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39 .. ..	....			1,470	0	0
Balance as per Balance Sheet—						
Rs. 14,000, 3½% G.P. Notes, 1854-55	12,267	8	0			
Surplus at date	2,228	7	8			
				14,495	15	8
				15,965	15	8

STATEMENT No. 10.

1939.

Sir William Jones Memorial

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39 .. ..	....			315	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,628	12	0			
Surplus at date	149	3	0			
				2,777	15	0
				3,092	15	0

STATEMENT No. 8.

Account, in Account with R.A.S.B.

1939.

started in 1926.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	4,493 12 9
Interest realized for the year	138 8 0

 4,632 4 9

STATEMENT No. 9.

Fund Account, in Account with R.A.S.B.

1939.

started in 1926.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	15,376 15 8
Interest realized for the year	489 0 0
Donation received during the year	100 0 0

 15,965 15 8

STATEMENT No. 10.

Fund Account, in Account with R.A.S.B.

1939.

1926, by Dr. U. N. Brahmachari.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	2,988 3 0
Interest realized for the year	104 12 0

 3,092 15 0

STATEMENT No. 11.

1939.

Pramathanath Bose Memorial

From a sum gifted for

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39 .. ..	....			189	0	0
Balance as per Balance Sheet—						
Rs. 800, 3½% G.P.N., 1842-43 } ..	1,577	4	0			
„ 1,000, „ „ 1865 } ..						
Surplus at date	261	3	0			
				1,838	7	0
				2,027	7	0

STATEMENT No. 12.

1939.

Joy Gobind Law Memorial

From a donation for the purpose

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal .. ..	....			297	0	0
Depreciation, Investments revalued on 31-12-39 .. ..	....			315	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,628	12	0			
Surplus at date	104	4	0			
				2,733	0	0
				3,345	0	0

STATEMENT No. 13.

1939.

*Building Fund*From a sum of Rs. 40,000 given by the Government of India
proceeds of a portion

	Rs.	As.	P.
To Balance as per Balance Sheet	6,321	9	6
	6,321	9	6

STATEMENT No. 11.*Fund Account, in Account with R.A.S.B.***1939.**

the purpose in 1935.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			1,975	3	0
Interest realized for the year			52	4	0

2,027 7 0

STATEMENT No. 12.*Fund Account, in Account with R.A.S.B.***1939.**

in 1929, by Dr. Satya Churn Law.

		Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account			3,240	4	0
Interest realized for the year			104	12	0

3,345 0 0

STATEMENT No. 13.*Account, in Account with R.A.S.B.***1939.**

towards the rebuilding of the Society's premises, and from the sale of the Society's land.

			Rs.	As.	P.
By Balance from last Account	..	..	6,321	9	6

6,321 9 6

STATEMENT No. 14.

1939.

Calcutta Science Congress Prize

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39				315	0	0
Balance as per Balance Sheet—						
Rs. 3,000, 3½% G.P. Notes, 1854-55	2,628	12	0			
Surplus at date	1,082	14	7			
				<hr/>	<hr/>	<hr/>
				3,711	10	7
				<hr/>	<hr/>	<hr/>
				4,026	10	7

STATEMENT No. 15.

1939.

Dr. Brühl Memorial Fund

From a sum gifted for the purpose in

	Rs.	As.	P.	Rs.	As.	P.
To Cost of a Medal				9	9	0
Depreciation, Investments revalued on 31-12-39				105	0	0
Balance as per Balance Sheet—						
Rs. 1,000, 3½% G.P. Notes, 1854-55	876	4	0			
Surplus at date	116	11	0			
				<hr/>	<hr/>	<hr/>
				992	15	0
				<hr/>	<hr/>	<hr/>
				1,107	8	0

STATEMENT No. 16.

1939.

Building Repair Fund

	Rs.	As.	P.
To Building Repairs	5,983	10	0
Balance as per Balance Sheet	5,995	9	6
	<hr/>	<hr/>	<hr/>
	11,979	3	6

STATEMENT No. 14.

Fund Account, in Account with R.A.S.B.

1939.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	3,921 14 7
Interest realized for the year	104 12 0

4,026 10 7

STATEMENT No. 15.

Account, in Account with R.A.S.B.

1939.

1929, by the Brühl Farewell Committee.

		Rs. As. P.	Rs. As. P.
By Balance from last Account	1,072 12 0
Interest realized for the year	34 12 0

1,107 8 0

STATEMENT No. 16.

Account, in Account with R.A.S.B.

1939.

			Rs. As. P.
By Balance from last Account	..	..	9,979 3 6
Transfer from R.A.S.B. General Fund	..	..	2,000 0 0

11,979 3 6

STATEMENT No. 17.

1939.

International Catalogue of Scien-

			Rs.	As.	P.
To Balance as per Balance Sheet	..	..	4,374	7	8
			<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

1939.

Provident Fund

From contributions by the

	Rs.	As.	P.	Rs.	As.	P.
To Depreciation, Investments revalued on 31-12-39				90	10	0
Payments during the year				4,552	0	8
Cost of a stamp				0	1	0
Balance as per Balance Sheet—						
Rs. 5,000, 3% G.P. Notes, 1941 ..	5,046	14	0			
.. 6,000, Fixed Deposit, Imperial Bank of India ..	6,000	0	0			
Savings Bank and Advances ..	3,283	8	11			
				<u>14,330</u>	<u>6</u>	<u>11</u>
				<u>18,973</u>	<u>2</u>	<u>7</u>

STATEMENT No. 19.

1939

Advances

			Rs.	As.	P.
To Balance from last Account	..	..	660	0	0
Payments during the year	..	..	2,150	0	0
			<u>2,810</u>	<u>0</u>	<u>0</u>

STATEMENT No. 17.

tific Literature, in Account with R.A.S.B.

1939.

			Rs.	As.	P.
By Balance from last Account	..	..	4,374	7	8
			<u>4,374</u>	<u>7</u>	<u>8</u>

STATEMENT No. 18.

Account, in Account with R.A.S.B.

1939.

Society and its Staff.

			Rs.	As.	P.	Rs.	As.	P.
By Balance from last Account	..	..	....			17,328	4	4
Interest realized during the year	..		49	7	9			
Staff Contribution for the year	..		701	1	9			
Society's Contribution for the year	..		701	1	9			
						<u>1,451</u>	<u>11</u>	<u>3</u>
Interest realized from Savings Bank			....			193	3	0
						<u>18,973</u>	<u>2</u>	<u>7</u>

STATEMENT No. 19.

Account, in Account with R.A.S.B.

1939.

			Rs.	As.	P.
By Refunds during the year	..	..	915	0	0
Balance as per Balance Sheet	..	..	1,895	0	0
			<u>2,810</u>	<u>0</u>	<u>0</u>

STATEMENT No. 20.

1939.

Personal

		Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account	..	....			5,239	5	6
Advances .. ..	..	....			13,374	8	11
Asiatic Society's Subscriptions, etc.	..	10,029	0	0			
Book Sales, etc. ..	..	6,676	6	11			
					16,705	6	11

35,319 5 4

STATEMENT No. 21.

1939.

Publication Fund

From sale proceeds

			Rs.	As.	P.
To Books returned, etc. ..	..		127	1	0
Balance as per Balance Sheet	..		7,824	8	6
			7,951	9	6

STATEMENT No. 20.

Account.

1939.

	Rs.	As.	P.	Rs.	As.	P.
By Cash Receipts during the year			30,149	4	7
Books returned			127	1	0
Bad Debts written off R.A.S.B.			1,190	2	0
Balance as per Balance Sheet			3,852	13	9

Outstandings.	Amount due to the Society.			Amount due by the Society.		
	Rs.	As.	P.	Rs.	As.	P.
Members	3,632	4	0	750	5	0
Subscribers, etc.	99	0	0	24	0	0
Bill Collector's Deposit ...	...	...	...	100	0	0
Miscellaneous ..	1,281	15	9	289	1	0
	5,016	8	9	1,163	6	0

 35,319 5 4

STATEMENT No. 21.

 Account, in Account with R.A.S.B.
 of publications.

1939.

	Rs.	As.	P.
By Balance from last Account ..	7,492	6	9
Cash Sale of Publications ..	459	2	9
	7,951	9	6

STATEMENT No. 22.

1939.

(1) Deposit Account (Savings Bank

	Rs.	As.	P.	Rs.	As.	P.
To Balance from last Account ..	....			5,522	14	4
Deposits of Interest realized from loans during the year ..	49	7	9			
Deposits of Contributions during the year	1,402	3	6			
Deposits of Advances returned ..	915	0	0			
				2,366	11	3
Interest for the year 1939 ..	....			193	3	0
				8,082	12	7

STATEMENT No. 23.

1939.

(2) Deposit Account (Fixed Deposit

	Rs.	As.	P.
To Balance from last Account	70,000	0	0
	70,000	0	0

STATEMENT No. 22.*Deposit with Imperial Bank of India).***1939.**

	Rs.	As.	P.	Rs.	As.	P.
By Withdrawal for Staff Advances, etc.			6,702	0	8
Cost of a stamp			0	1	0
Balance as per Balance Sheet			1,380	10	11

 8,082 12 7

STATEMENT No. 23.*with Imperial Bank of India).***1939.**

	Rs.	As.	P.
By Withdrawal during the year	20,000	0	0
Balance as per Balance Sheet	50,000	0	0
	<hr/>		
	70,000	0	0

STATEMENT No. 24.
1939.

(3) Investment

	Rs.	As.	P.
To Balance from last Account	3,24,591	14	0
	3,24,591	14	0

Face Value Rs.	FUNDS.	Rate @ Rs %	31st December, 1938, Valuation		31st December, 1938, Valuation.		Depreciation.	
			Rs.	A. P.	Rs.	A. P.	Rs.	A.
	ROYAL ASIATIC SOCIETY OF BENGAL.							
	PERMANENT RESERVE							
16,700	3½% G.P. Notes, 1842-43	}						
1,53,700	3½% G.P. Notes, 1854-55							
44,300	3½% G.P. Notes, 1865 ..							
6,000	3½% G.P. Notes, 1879 ..							
33,000	3½% G.P. Notes, 1900-01							
2,53,700		87/10/-	2,22,804	10 0	2,48,943	2 0	26,688	8 0
500	3% G.P. Notes, 1893-97	75/12/-	878	12 0	489	6 0	60	10 0
	TEMPORARY RESERVE							
18,000	3½% G.P. Notes, 1900-01	87/10/-	15,772	8 0	17,862	8 0	1,890	0 0
11,400	4½% Loan, 1955-60 ...	107/1/-	12,205	2 0	13,537	8 0	1,332	6 0
	BARCLAY MEMORIAL FUND.							
700	3½% G.P. Notes, 1854-55	87/10/-	613	6 0	686	14 0	73	8 0
	SERVANTS' PENSION FUND							
3,000	3½% G.P. Notes, 1854-55	87/10/-	2,628	12 0	2,943	12 0	315	0 0
	ANNANDALE MEMORIAL FUND.							
4,000	3½% G.P. Notes, 1854-55	87/10/-	3,505	0 0	3,925	0 0	420	0 0
	PERMANENT LIBRARY ENDOWMENT FUND.							
14,000	3½% G.P. Notes, 1854-55	87/10/-	12,267	8 0	13,787	8 0	1,470	0 0
	SIR WILLIAM JONES MEMORIAL FUND.							
3,000	3½% G.P. Notes, 1854-55	87/10/-	2,628	12 0	2,943	12 0	315	0 0
	PRAMATHANATH BOSE MEMORIAL FUND							
800	3½% G.P. Notes, 1842-43	}						
1,000	3½% G.P. Notes, 1865							
	JOY GOBIND LAW MEMORIAL FUND							
3,000	3½% G.P. Notes, 1854-55	87/10/-	2,628	12 0	2,943	12 0	315	0 0
	CALCUTTA SCIENCE CONGRESS PRIZE FUND.							
3,000	3½% G.P. Notes, 1854-55	87/10/-	2,628	12 0	2,943	12 0	315	0 0
	DR BRÜHL MEMORIAL FUND.							
1,000	3½% G.P. Notes, 1854-55	87/10/-	878	4 0	961	4 0	105	0 0
	PROVIDENT FUND.							
5,000	3% Loan, 1941 ...	100/15/-	5,046	14 0	5,137	8 0	90	10 0
6,000	Fixed Deposit, One year, Imperial Bank of India			6,000	0 0	6,000	0 0	
8,29,100			2,91,062	4 0	3,24,591	14 0	88,539	10 0

STATEMENT No. 24.*Account.**1939.*

	Rs.	As.	P
By Depreciation, Investments revalued on 31-12-39 ..	33,529	10	0
Balance as per Balance Sheet	2,91,062	4	0
	3,24,591	14	0

STATEMENT No. 25.

1939.

Cash

For the year ended 31st

To	Rs.	As.	P.	Rs.	As.	P.
Balance from last Account				11,452	0	8
General Fund Account	33,165	10	3			
Oriental Publication Fund No. 1 Account	7,200	0	0			
Oriental Publication Fund No. 2 Account	4,800	0	0			
Sanskrit Manuscripts Fund Account	2,880	0	0			
Arabic and Persian Fund Account	2,500	0	0			
Barclay Memorial Fund Account	24	4	0			
Servants' Pension Fund Account	104	12	0			
Annandale Memorial Fund Account	138	8	0			
Permanent Library Endowment Fund Account	589	0	0			
Sir William Jones Memorial Fund Account	104	12	0			
Pramathanath Bose Memorial Fund Account	52	4	0			
Joy Gobind Law Memorial Fund Account	104	12	0			
Calcutta Science Congress Prize Fund Account	104	12	0			
Dr. Brühl Memorial Fund Account	34	12	0			
Provident Fund Account	1,451	11	3			
Advances Account	915	0	0			
Personal Account	30,149	4	7			
Publication Fund Account	459	2	9			
Savings Bank Deposit Account, Imperial Bank of India, Calcutta	6,702	0	8			
Fixed Deposit Account, Imperial Bank of India, Calcutta	20,000	0	0			
				1,11,480	9	6
				1,22,932	10	2

STATEMENT No. 25.

Account.

1939.

December, 1939.

By	Rs. As. P.	Rs. As. P.
General Fund Account	65,946 9 0	
Oriental Publication Fund No. 1 Account ..	497 14 0	
Oriental Publication Fund No. 2 Account ..	10,089 12 6	
Sanskrit Manuscripts Fund Account ..	1,223 0 0	
Arabic and Persian Fund Account ..	2,693 1 6	
Servants' Pension Fund Account ..	132 0 0	
Dr. Brühl Memorial Fund Account ..	9 9 0	
Joy Gobind Law Memorial Fund Account ..	297 0 0	
Building Repair Fund Account ..	5,983 10 0	
Provident Fund Account ..	4,552 0 8	
Advances Account ..	2,150 0 0	
Personal Account ..	13,374 8 11	
Savings Bank Deposit Account, Imperial Bank of India, Calcutta ..	2,366 11 3	
		1,09,315 12 10
Balance as per Balance Sheet—		
In hand	12 0 6	
With the Imperial Bank of India, on Current Account	13,604 12 10	
		13,616 13 4

1,22,932 10 2

STATEMENT No. 26.

1939.

*Balance**As at 31st*

LIABILITIES.

	Rs.	As.	P.	Rs.	As.	P.
General Fund Account			2,50,988	6	6
Oriental Publication Fund No. 1 Account			16,768	7	2
Sanskrit Manuscripts Fund Account			24,824	1	3
Barclay Memorial Fund Account			685	10	8
Servants' Pension Fund Account			3,494	2	8
Annandale Memorial Fund Account			4,212	4	9
Permanent Library Endowment Fund Account			14,495	15	8
Sir William Jones Memorial Fund Account			2,777	15	0
Pramathanath Bose Memorial Fund Account			1,838	7	0
Joy Gobind Law Memorial Fund Account			2,733	0	0
Building Fund Account			6,321	9	6
Calcutta Science Congress Prize Fund Account			3,711	10	7
Dr. Brühl Memorial Fund Account			992	15	0
Building Repair Fund Account			5,995	9	6
International Catalogue of Scientific Literature, London			4,374	7	8
Provident Fund Account			14,330	6	11
Publication Fund Account			7,824	8	6
				3,66,360	10	4

We have examined the above Balance Sheet and the appended detailed accounts with the Books and Vouchers presented to us and certify that they are in accordance therewith, and, in our opinion, set forth correctly the position of the Society as at 31st December, 1939.

PRICE, WATERHOUSE, PEAT & Co.,

Calcutta,
17th January, 1940.

Auditors,
Chartered Accountants,
Registered Accountants.

STATEMENT No. 26.

Sheet.

1939.

December, 1939.

ASSETS.

	Rs.	As.	P.	Rs.	As.	P.
Oriental Publication Fund No. 2 Account	3,144	15	1			
Arabic and Persian Manuscripts Fund Account	1,417	1	3			
	<hr/>			4,562	0	4
Advances Account	1,895	0	0			
Personal Account	3,852	13	9			
	<hr/>			5,747	13	9
Deposits:—						
Savings Bank Deposit Account, Imperial Bank of India	1,380	10	11			
Fixed Deposit Account, Imperial Bank of India	50,000	0	0			
	<hr/>			51,380	10	11
Investment Account .. .. .	....			2,91,062	4	0
Cash Account:—						
In hand	12	0	6			
With the Imperial Bank of India, on Current Account	13,604	12	10			
	<hr/>			13,616	13	4
				<hr/>		
				3,66,369	10	4
				<hr/>		

PERCY BROWN,
Honorary Treasurer.

[APPENDIX IV.]

Abstract Proceedings Council, 1939.

(Rule 48 f.)

ACCOMMODATION—

Letter of thanks from the Mining, Geological and Metallurgical Institute of India. Record.

No. 2. 30-1-39.

Request for the use of the Society's hall by the Secretary, Indian Red Cross Society. Approved.

No. 1. 20-3-39.

Request for the use of the Society's rooms and hall for the Committee meetings and General meetings by the Honorary Secretary, Calcutta Health Week. Grant. A charge of Rs.5 should be made for the use of the main hall but no charge will be levied for other rooms.

No. 3. 29-5-39.

Request for the use of the Society's hall by the Mining, Geological and Metallurgical Institute of India, on 18th August, 1939. Confirm General Secretary's action

No. 21. 31-7-39.

Report of the General Secretary on the loan of the Society's rooms during the month to: (1) The Working Committee of the Calcutta Health Week. (2) The Mining, Geological and Metallurgical Institute of India. (3) The National Institute of Sciences of India. (4) The Mining, Geological and Metallurgical Society. Action of the General Secretary approved. Record.

No. 17. 28-8-39.

Letter from the Chief Warden, Ward No. 16, requesting the Society to place a room at his disposal for the office of the Air Raid Precaution Committee. No action.

No. 2. 30-11-39.

Letter dated 17-11-39 from the Hony. Secretary, Mining, Geological and Metallurgical Institute of India, requesting the use of the Society's hall for their annual meeting. Approve General Secretary's action.

No. 2. 12-12-39.

Letter dated 6-12-39 from Dr. H. C. Ray requesting that a suitable room be set aside for the use of research scholars.

Every facility to be given but no special room can be allotted.
No. 10. 12-12-39.

ANNUAL MEETING—

Letter from the Asst. Secretary to His Excellency the Governor of Bengal intimating acceptance of the invitation by His Excellency to preside over the Society's Annual Meeting. Record.

No. 4.

Annual Report. Approved.
No. 14.

31-1-39.

Annual Meeting. Arrangements approved.
No. 15.

31-1-39.

Letter from the Asst. Secretary to His Excellency the Governor of Bengal intimating the inability of His Excellency to be present at the Annual Meeting. Record.

No. 2.

27-2-39.

Letter from the Asst. Secretary to His Excellency the Governor of Bengal intimating that His Excellency has agreed to preside as Patron over the next Annual Meeting of the Society on Monday, the 5th February, 1940. Record. The word 'joint' to be omitted.

No. 23.

12-12-39.

ASSOCIATE MEMBERS—

Quinquennial re-election Associate Member.

Recommend for re-election for a further period of five years,
Messrs. S. O. Ray and L. S. Dugin.

No. 4. (Special.)

27-2-39.

Letter from Miss M. L. W. Cleghorn, an old member of the Society (whose name was removed from the list of members under Rule 38) requesting that the Society should regularize her membership by treating her as a mofussil member.

Resolved that her name be proposed for election as an Associate Member.

No. 5.

25-9-39.

Proposal of election of two Associate Members:—

(a) Dr. E. W. E. Macfarlane (Mrs.), D.Sc. (London), and

(b) Miss Grace Lewisior, M.A. (Chicago).

Recommend Dr. E. W. E. Macfarlane for election as an Associate Member. No recommendation to be made in the case of Miss Grace Lewisior.

No. 7.

12-12-39.

BIBLIOTHECA INDICA—

Recommendation Finance Committee No. 8 of 27-2-39. The question of the settlement of remuneration for indexing *Tabaqat-i-Akbari*, English Translation, Volume II. Circulate. Accepted by Council.

No. 11.

27-2-39.

Recommendation Finance Committee No. 3 (d) of 17-3-39. The question of settlement of indexing charges of *Tabaqat-i-Akbari*. Final payment Rs.50 to be made. Accepted by Council.

No. 5.

20-3-39.

Recommendation Publication Committee No. 6 of 29-5-39. Postcard from Mehar Chand Lachman Das, Lahore, asking for permission to publish a new edition of 'Mirror of Composition', edited by Padma Das Mitra. Decline. The Society to revise and reprint a second edition under the editorship of Dr. S. K. De, Head of the Department

of Sanskrit, University of Dacca. Dr. S. K. De to be addressed. No remuneration. Accepted by Council.

No. 17.

29-5-39.

Letter from B. M. Press concerning Bibliotheca Indica and other R.A.S.B. works under printing in December, 1937.

Special Enquiry Committee to make recommendations.

No. 23.

29-5-39.

Recommendation Publication Committee No. 7 of 31-7-39. Application by Dr. M. Hidayat Hosain requesting to be allowed to edit 'Humayun Nama' by Ghiyath-ad-Din bin Humam-ad-Din, in the Bibliotheca Indica at the usual remuneration of Rs.1-8 per page. Grant: remuneration Rs.1-8 per page. Accepted by Council.

No. 15.

31-7-39.

Recommendation Publication Committee No. 9 of 31-7-39. Letter from Dr. M. Hidayat Hosain regarding editing of 'Maathir-ul-Umara' (English Translation), manuscript of which had been prepared by the late Mr. Boveridge. Request Dr. Baini Prashad to undertake the work. Accepted by Council.

No. 15.

31-7-39.

Recommendation Publication Committee No. 10 of 31-7-39. On the proposal of Mr. M. Haq seconded by Dr. M. H. Hosain it was unanimously resolved that the thanks of the Publication Committee be conveyed to Dr. Baini Prashad for the prompt and excellent manner in which he has carried out the difficult task of editing the Tabaqat-i-Akbari resulting in its publication in so short a time. Accepted by Council.

No. 15.

31-7-39.

Recommendation Publication Committee No. 1 (iv) of 21-8-39. Letter from Dr. Baini Prashad dated 17-8-39 from Murree relating to completion and preparation of the English Translation of 'Maathir-ul-Umara'. Accept in principle the request of Dr. Baini Prashad for clerical and other assistance and recommend its acceptance to the Council when full details are furnished. Accepted by Council.

No. 10.

28-8-39.

Recommendation Publication Committee No. 8 of 18-9-39. To issue a Persian collated edition of Bhagwat Gita. Accept with thanks Dr. Baini Prashad's proposal and offer to do the work. Accepted by Council.

No. 13.

25-9-39.

Bill of Messrs. Stephen Austin & Sons, Ltd., for £102-0-9 for printing Ain-i-Akbari. Resolved that they be requested to furnish a complete account in detail from the inception of the work together with copies of all relevant reminders; that the account be thoroughly checked to the entire satisfaction of the Finance Committee; and the payment of the amount found due be authorized by the Finance Committee.

No. 21.

25-9-39.

Recommendation Publication Committee No. 5 of 24-11-39. Preface for the Tabaqat-i-Akbari, English Translation, Volume III by Dr. Baini Prashad. Accept the recommendations of the Philological Secretaries and the referees. Read and Journal. Accepted by Council.

No. 12.

30-11-39.

Recommendation Publication Committee No. 6 of 24-11-39. Letter from Prof. M. Mahfuz-ul Haq, dated 9-11-39, requesting permission to employ the services of an Assistant for a period of 3 months on a salary of from Rs.20 to Rs.25 per month to assist him in the preparation of the collation of the MSS. of the Haft-Iqlim. An Assistant may be employed for a period of three months on a salary of from Rs.20 to Rs.25. Accepted by Council.

No. 12.

30-11-39.

Recommendation Publication Committee No. 2 of 12-12-39. Request from Dr. M. Hidayat Hosain to be permitted to edit the Persian text of 'Tarikh-i-Humayuni' by Bayazid in the Bibliotheca Indica Series at the usual remuneration of Rs.1-8 per page. Grant. Accepted by Council.

No. 17.

12-12-39.

Recommendation Publication Committee No. 3 of 12-12-39. Request from Dr. M. Hidayat Hosain to obtain from the British Museum rotograph or typed copies (whichever is cheaper) of Memoirs of Bayazid Bayat translated by Erskine, and Ehwand Mir's Humayun Nama translated by Munshi Sadasukh Lal. Grant. Accepted by Council.

No. 17.

12-12-39.

Recommendation Publication Committee No. 4 of 12-12-39. Reprint of Avadana Kalpalata. Prof. D. Chattopadhyaya of Bethune College to be entrusted with the work of editing at a reduced rate to be fixed by the General Secretary. Accepted by Council.

No. 17.

12-12-39.

Recommendation Publication Committee No. 6 of 12-12-39. Letter from K. S. Paul in connection with the publication of 'Dowa Sangmo's Namthar'. To be referred to experts. Accepted by Council.

No. 17.

12-12-39.

The publication of the following works, the completion of which was left to the late General Secretary, Mr. Johan van Manen: Vajjalagam and Vaikhanasasautasutra.

Put up before the Publication Committee. The General Secretary to write to Mr. van Manen and fix a time limit for him to complete the works, otherwise the works to be withdrawn from him and other arrangements made for their publication.

No. 22.

12-12-39.

BUDGET—

Recommendation Finance Committee No. 5 of 30-1-39. The General Secretary drew attention to the reduction in the Government of India grant for Arabic and Persian MSS. and asked for consideration of this in connection with the budget for 1939 as passed. Place before Council. Council order: no action.

No. 10.

30-1-39.

The Budget estimates for 1939 with special reference to the curtailment by the Government of India of the Persian and Arabic MSS. grant.

The General Secretary to make a reference in presenting the report; a note summarizing his remarks to be embodied in the proceedings of the meeting.

No. 3. (Special.)

27-2-39.

Recommendations of the Special Finance Committee of 7-12-39.

Accept but Rs.4,000 only to be transferred to the Permanent Reserve, the balance of the surplus being set aside for the appointment of a second Assistant Secretary.

No. 14.

12-12-39.

Recommendation Finance Committee No. 2 (d) of 7-12-39. Budget estimates for 1940. Accept. A very satisfactory budget. Unanimously recommended that a sum of Rs.5,000 be transferred to the Permanent Reserve Fund from the surplus in 1940. Accepted by Council.

No. 15.

12-12-39.

BUILDING—

Recommendation Finance Committee No. 7 of 27-2-39. Building repairs estimates from Messrs. J. B. Norton & Co., Martin & Co., etc. Accept. Accepted by Council.

No. 11.

27-2-39.

Recommendation Finance Committee No. 3 (b) of 28-8-39. Repairing of the Malthoid Roofing on the Society's premises undertaken by Messrs. Lyall Marshall & Co. Write to Messrs. Martin & Co. direct, copy to Messrs. Lyall Marshall & Co. regarding their guarantee of eight years. Accepted by Council.

No. 8.

28-8-39.

Recommendation Finance Committee No. 6 of 5-10-39. Estimate from Messrs. J. B. Norton & Sons, Ltd. for Rs.46 for the installation of an unfiltered water hydrant for washing surface drains. Accept and put the work in hand at once. Accepted by Council.

No. 9.

30-11-39.

COMMITTEES—

Constitution of Standing Committees of the Society for 1939-40. The Standing Committees to be as follows:—

(a) Finance Committee :

President	} <i>Ex-Officio.</i>
Treasurer	
General Secretary	
Sir U. N. Brahmachari.	
Lt.-Col. N. Barwell.	
Dr. Bains Prashad.	
Dr. J. N. Mukherjee.	
Dr. S. P. Mookerjee.	
Dr. C. S. Fox.	
Dr. S. C. Law.	

(b) Library Committee :

President	} <i>Ex-Officio.</i>
Treasurer	
General Secretary	
Philological	} <i>Secretaries.</i>
Jt. Philological	
Biological	
Physical Science	
Anthropological	
Medical	
Library	

(c) *Publication Committee :*

President	}	<i>Ex-Officio.</i>
Treasurer		
General Secretary		
Philological	}	<i>Secretaries.</i>
Jt. Philological		
Biological		
Physical Science		
Anthropological		
Medical		
Library		

No. 8.

27-2-39.

Letter from Dr. Bains Prashad. That a Special Committee be appointed to enquire into the general administration and cultural activities of the Society, and to submit to the April Meeting of Council a detailed report with recommendations, if any, for effecting necessary improvements. The Committee also to report on the alleged discrepancies between Rules and Regulations on the one hand and existing procedure and practices of the Society on the other.

The Committee to consist of:

Sir John Lort-Williams (Chairman),
 Dr. Bains Prashad (Secretary),
 Dr. M. N. Saha,
 Dr. S. P. Mookerjee,
 Dr. J. N. Mukherjee,
 Dr. C. S. Fox,
 and the Ex-Officio Members.

Five members to form a quorum.

No. 10.

27-2-39.

Resolved that the terms of reference made to the re-organization Committee appointed on 28-3-38 be deemed made to the Special Enquiry Committee appointed on 27-2-39 to enable the latter to deal with any points left undisposed of by the previous committee.

No. 21.

24-4-39.

On the proposal of Sir John Lort-Williams, seconded by Dr. Bains Prashad, it was resolved that three members should form a quorum of the Special Enquiry Committee appointed by the Council at the meeting held on Monday, the 27th February, 1939.

No. 2.

29-5-39.

Letter from the Honorary General Secretary, All-India Oriental Conference, Dacca, regarding a proposal for instituting an Indian Academy of Arts and Letters.

A new Sub-Committee consisting of Dr. S. K. Chatterji, Dr. M. Hidayat Hosain and the General Secretary be formed to frame suggestions for submission to the Council.

No. 7.

31-7-39.

Consideration of the final report of the Special Enquiry Committee appointed by the Council on the 27th February, 1939.

On the proposal of Sir John Lort-Williams, seconded by Dr. S. P. Mookerjee, it was unanimously resolved to adopt the final report of the Special Enquiry Committee in toto. The General Secretary was directed to take necessary action to give effect to the recommendations made in the report.

On the proposal of Dr. S. P. Mookerjee, seconded by Sir David Ezra, it was unanimously resolved to record the thanks of the Council to Sir John Lort-Williams, for the services rendered to the Society and the hard work performed by him as Chairman of the Special Enquiry Committee.

On the proposal of Col. N. Barwell, seconded by Major C. L. Pasricha, it was unanimously resolved to record the thanks of the Council to all the members of the Special Enquiry Committee for the extremely satisfactory manner in which they have carried out the unusually arduous duties imposed on them by this enquiry, a task which has involved a considerable amount of time and labour.

No. 2. (Special.)

10-8-39.

General Secretary's report of acceptance from Dr. D. R. Bhandarkar, Dr. U. N. Ghosal and Dr. R. C. Majumdar of their nominations as the Society's delegates at the forthcoming Indian History Congress. Record.

No. 16.

25-9-39.

CONDOLENCE—

The President moved that the Society should send a letter of condolence to the Lady Brabourne, expressing regrets at the death of Lord Brabourne, Patron and Member of the Society.

Adopted all present standing.

27-2-39.

Letter of thanks from the Private Secretary to the Governor of Bengal conveying thanks from the Lady Brabourne. Record.

No. 2.

24-4-39.

COPPER PLATES—

Letter from the Asst. Secretary to His Excellency the Governor of Bengal regarding the receipt of the missing Bhowal Copper-plate inscription of Lakshminasena from the India Office through His Excellency the Governor of Bengal.

Resolved that an expression of the Council's deep gratitude and of His Excellency's personal interest in bringing the Bhowal Copper-plate inscription from the India Office and handing it over to the President of the Society be conveyed to him.

No. 16.

30-11-39.

Letter dated the 7th December, 1939, from Dr. N. K. Bhattasali in respect of the editing of the Bhowal Copper-plate of Lakshminasena and requesting that the plate may be lent to him.

Impressions or photostat copies may be supplied. The plate cannot be issued on loan.

No. 21.

12-12-39.

COUNCIL—

Vote of thanks to the outgoing Council. Resolved that the Council's thanks be conveyed to the outgoing members of Council.

No. 16.

31-1-39.

The General Secretary reported that with regard to Council Circular No. 31, dated the 23rd February, 1939, concerning the date and time

for the postponed Council and Committee meetings for February the result had been as follows:—

Saturday, 25th February at 10 A.M.	..	..	5
" " " " 3 P.M.	..	..	1
Monday, 27th " " 5-15 to 5-25 P.M.	..	..	10
Saturday morning unsuitable	..	..	2
Unexpressed opinion	..	..	2

Accordingly he had sent out revised notices for Monday, the 27th February, 1939, at 5-15 P.M. Action approved.

27-2-39.

Acceptance seat on Council by the Council members. Record.

No. 1.

27-2-39.

Absence of Honorary Treasurer from Calcutta. Dr. B. S. Guha to officiate as Honorary Treasurer to the Society during the absence of the Honorary Treasurer Mr. Percy Brown, from 1-4-39 until notification of the latter's return to Calcutta and resumption of office.

No. 12.

27-2-39.

Date next Council Meeting. Monday, March 20th.

No. 17.

28-2-39.

Proposed by Dr. Saha and seconded by Dr. Guha that the Council is of opinion that the General Secretary should attend office during normal office hours. Passed by a majority of 9.

No. 11.

20-3-39.

Recommendations of the Special Enquiry Committee. Accepted unanimously.

Dr. Guha to be Acting General Secretary and Dr. Bains Prashad to be Acting Treasurer for the period 25th April to 22nd July, 1939.

No. 18.

24-4-39.

A letter from the President, Sir David Ezra, regretting his inability to attend this meeting was read and recorded.

No. 1.

29-5-39.

Letter from Dr. S. L. Hora to the President. Reply to Dr. Hora in suitable terms and inform him that the Council is assured that the language used by the General Secretary (now on special duty) in his correspondence with Dr. Hora was not intended to give offence in any way.

No. 7.

29-5-39.

Letter from the Maharajadhiraja of Burdwan intimating absence from Calcutta for five months from June 1939. Record.

No. 19.

29-5-39.

Resolved that in future only important and controversial matters should be circulated. Circulars except in case of extreme urgency should be sent to members of Council and Committees in batches.

It was also resolved that when submitting agenda to members sufficient details should be given in the case of each item thereof, as will enable members clearly to understand its import.

No. 27.

29-5-39.

Letter from Mr. Johan van Manen dated 24-6-39 resigning his office as General Secretary to the Society with effect from 1-7-39.

Proposed by Sir John Lort-Williams and seconded by Dr. S. P. Mookerjee:

- (a) That the Council do accept the resignation of the General Secretary with effect from the 1st July, 1939.
- (b) That the Council records the opinion that the work of the Society has suffered during the last few years on account of the failure of the General Secretary to perform his duties fully. The Council notes in this connection the statement made by the General Secretary that he has been in continued ill-health in recent years.
- (c) That in view of the services rendered by the General Secretary in the earlier years and also in view of the fact that he is resigning his office about seven months before the expiry of his present term, the Council sanctions a gratuity of a lump sum of Rs.10,000 to be paid to him as soon as the resignation takes effect.

Carried unanimously.

On the proposal of Dr. S. P. Mookerjee, seconded by Dr. Baini Prashad, it was further resolved that under Rule 45 Dr. B. S. Guha be appointed General Secretary from the 1st July, 1939, to the end of the term, vice Mr. Johan van Manen, resigned, subject to confirmation of the next subsequent Ordinary General Meeting.

On the proposal of Dr. S. K. Chatterji, seconded by Col. N. Barwell, it was further resolved that under Rule 45 Mr. H. C. Chakladar be appointed Anthropological Secretary from the 1st July, 1939, to the end of the term, vice Dr. B. S. Guha, appointed General Secretary, subject to confirmation of the next subsequent Ordinary General Meeting.

No. 1.

26-6-39.

Letter from Percy Brown. Dr. Baini Prashad to continue to perform the duties of Treasurer.

No. 2.

31-7-39.

Letter from Mr. Johan van Manen accepting the Council decision of 26-6-39. Record.

No. 19.

31-7-39.

Interpretation of Rule 44 (g) read in conjunction with Rule 4 of the Society with special reference to the election of Council for 1940-41. Postpone consideration until after the Annual Meeting, 1940.

No. 6.

30-11-39.

Informal consideration, composition of Council, 1940-41.

After discussion, the following list of candidates for nomination to next year's Council was placed before the meeting for consideration:—

President	..	..	Bt.-Col. R. N. Chopra.
Vice-President	..	..	The Hon'ble Mr. Justice John Lort-Williams, Kt.
"	"	..	Maharajadhiraja Sir Bijay Chand Mahtab of Burdwan.
"	"	..	Dr. C. S. Fox.
"	"	..	Dr. S. P. Mookerjee.
General Secretary	..	..	Dr. B. S. Guha.
Treasurer	..	..	Dr. Baini Prashad.
Philological Secretary	..	..	Dr. S. K. Chatterji.

Jt. Philological Secretary ..	Prof. M. Mahfuz-ul Haq.
Nat. Hist. Secretary (Biology)	Dr. Kalipada Biswas.
" " " (Phy. Science)	Prof. Meghnad Saha.
Anthropological Secretary ..	Mr. H. C. Chakladar.
Medical Secretary ..	Sir U. N. Brahmachari.
Library Secretary ..	Prof. J. N. Mukherjee.
Member of Council ..	Dr. M. Hidayat Hosain.
" "	Percy Brown, Esq.
" "	Major C. L. Pasricha.
" "	Dr. S. C. Law.
" "	W. D. West, Esq.
" "	Dr. Kalidas Nag.

Unanimously resolved that the General Secretary do print and circulate to the members of Council the list of the Council as at present constituted, together with the new list placed before the meeting, and provided with a blank column for additional names; and that these lists be returned to the General Secretary within a week of date of issue; and that a list be compiled of the candidates finally proposed and be placed before the next Council Meeting to be voted upon.

No. 14.

30-11-39.

Fixing dates for the Budget (1940) Committee and Council meetings in December, 1939.

The special meeting of the Finance Committee for consideration of the Budget for 1940 to be held on Thursday, the 7th December, 1939, and to be followed by the ordinary meeting of the Finance Committee for December, 1939.

The Council, and the Library and the Publication Committees to meet on Tuesday, the 12th December, 1939.

A special meeting of the Council for consideration of the Annual Report to be held on Thursday, the 11th January, 1940.

No. 15.

30-11-39.

Letter dated 5-12-39 from Bt.-Col. R. N. Chopra withdrawing his nomination by the Council to Presidentship of the Society for 1940-41 in favour of Sir John Lort-Williams. Record.

No. 3.

12-12-39.

Letter dated 6-12-39 from Dr. M. Hidayat Hosain intimating the withdrawal of his nomination for a seat on the Council for 1940-41. Record.

No. 4.

12-12-39.

Letter dated 5-12-39 from Sir U. N. Brahmachari intimating the withdrawal of his nomination for a seat on the Council for 1940-41. Record.

No. 5.

12-12-39.

Council nomination, 1940-41.

The General Secretary reported that 19 Council members had returned the list of candidates circulated, duly signed, and with a number of alternative suggestions.

After discussion resolved that the following names be declared as Council's candidates for election to next year's Council, and that the list be ordered to be issued to Resident Members, as prescribed in Rule 44.

President ..

.. The Hon'ble Mr. Justice J. Lort-Williams, Kt.

Vice- President ..	..	Bt.-Col. R. N. Chopra.
" " ..	..	Maharajadhiraja Bahadur Sir Bijay Chand Mahtab of Burdwan.
" " ..	..	Dr. C. S. Fox.
" " ..	..	Dr. S. P. Mookerjee.
General Secretary ..	..	Dr. B. S. Guha.
Treasurer ..	..	Dr. Baini Prashad.
Philological Secretary ..	..	Dr. S. K. Chatterji.
Jt. Philological Secretary ..	..	Prof. M. Mahfuz-ul Haq.
Nat. Hist. Secretary (Biology)	..	Dr. Kalipada Biswas.
" " " (Phy. Science)	..	Prof. Meghnad Saha.
Anthropological Secretary ..	..	Mr. H. C. Chakladar.
Medical Secretary ..	..	Major C. L. Pasricha.
Library Secretary ..	..	Prof. J. N. Mukherjee.
Member of Council ..	..	Mr. Percy Brown.
" " ..	..	Dr. S. C. Law.
" " ..	..	Dr. Kalidas Nag.
" " ..	..	Sir S. Radhakrishnan, Kt.
" " ..	..	Prof. M. Z. Siddiqi.
" " ..	..	Mr. W. D. West.

No. 19.

12-12-39.

EXCHANGE OF PUBLICATIONS—

Recommendation Library Committee No. 5 of 30-1-39. Request for exchange of publications from:

- (a) Deutsches Kolonial-und Uebersee Museum, Bremen. Decline.
- (b) State Public Library, Leningrad, Russia. Ask for further information.
- (c) Editor, Journal of Indian History, Madras. Grant; exchange Journal from 1935 onwards.

Accepted by Council.

No. 11.

30-1-39.

Recommendation Library Committee No. 5 of 27-2-39. Request for exchange of publications from the Library, Government General of Chosen (Chosen Sotokofu Toshokan), Keijo. Decline. Accepted by Council.

No. 13.

27-2-39.

Recommendation Library Committee No. 2 of 20-3-39. Request for an exchange of the Society's Memoirs from the Director, Science Museum, London. Grant. Accepted by Council.

No. 6.

20-3-39.

Recommendation Library Committee No. 3 of 24-4-39. Letter from the Vice-President, Pushtu-Tolana, Kabul, Afghanistan, requesting an exchange of publications. Await reply. Accepted by Council.

No. 15.

24-4-39.

Recommendation Library Committee No. 1 of 29-5-39. Application for an exchange of the Society's publications from the Editor, Jaina Siddhanta Bhaskara, Arrah. Exchange Journal only. Accepted by Council.

No. 16.

29-5-39.

Recommendation Library Committee No. 2 of 29-5-39. Application for an exchange of the Society's publications from the State Public

Library, Leningrad. Write and ask them if they are agreeable to exchange the regular issues of their Journal. Accepted by Council.
No. 16. 29-5-39.

Recommendation Library Committee No. 3 of 29-5-39. Application for an exchange of the Society's publications from the Afghan Academy, Kabul. Exchange Journal and Memoirs. Accepted by Council.
No. 16. 29-5-39.

Recommendation Library Committee No. 1 of 26-6-39. Application for exchange of publications from the Professor of Biology, Stanford University, California, U.S.A. Exchange Journal only.
No. 6. 26-6-39.

Recommendation Library Committee No. 2 of 31-7-39. Application for exchange from the Assistant Secretary and Superintendent, Oriental Publication Bureau and Dairat-ul-Maarif Press, Hyderabad, Deccan. Exchange Arabic and Persian works of Bibliotheca Indica Series. Accepted by Council.
No. 14. 31-7-39.

Letter from the Secretary, Entomological Society of India, requesting the Society to subscribe to the Indian Journal of Entomology. Exchange Journal and Proceedings.
No. 15. 28-8-39.

Recommendation Library Committee No. 3 of 24-11-39. Request from the National Library of Peiping, China, for free supply of the Society's Journal and Proceedings in 1940. Also a request for exchange of the Society's Journal with theirs. Grant and exchange. Accepted by Council.
No. 10. 30-11-39.

Recommendation Library Committee No. 7 of 24-11-39. Correspondence with the Shibli Academy, Azamgarh, for exchange of publications. Exchange Arabic and Persian text only. Ask for a complete set of 'Maarif' issued up to date. Accepted by Council.
No. 10. 30-11-39.

Recommendation Library Committee No. 2 of 12-12-39. Request from the Societe des Oceanistes, Paris, for exchange of publications. Defer until the Bulletin is received. Accepted by Council.
No. 16. 12-12-39.

Recommendation Library Committee No. 4 of 12-12-39. Circular letter from the Chancellor, Reale Accademia d' Italia, Rome, intimating that the Reale Accademia dei Lincei has now been amalgamated with the Reale Accademia d' Italia and that the publications of the former commencing from July, 1939, will be published as a new series in the 'Atti della Reale Accademia d' Italia' divided into 'Proceedings' and 'Memoirs' of the categories of moral and historical sciences and of physical, mathematical and natural sciences. Exchange one set only of the Journal and Memoirs. Accepted by Council.
No. 16. 12-12-39.

Letter, dated the 8th December, 1939, from Diwan Bahadur S. E. Runganathan, Vice-Chancellor, University of Madras, intimating that the Annals of Oriental Research of that University will be sent to the

Society in exchange for the issues of the Bibliotheca Indica Series.
Accept in exchange.

No. 20.

12-12-39.

FINANCE—

Recommendation Finance Committee No. 3 of 27-2-39. Auditor's report for 1938-39. Record. Accepted by Council.

No. 11.

27-2-39.

Recommendation Finance Committee No. 4 of 27-2-39. Bad debts to be written off owing to deaths, resignations, etc. of members. Write off. Accepted by Council.

No. 11.

27-2-39.

Letter No. 477-Misc. of 21-4-39 from the Education Department, Government of Bengal.

- (i) The reply sent by Mr. van Manen as General Secretary and the action taken by the Acting General Secretary were considered.

Resolved that the action taken by the Acting General Secretary be approved. The draft replies put up by the latter were discussed.

- (ii) Resolved that, in view of the fact that the Council met on Monday, the 24th April, the letter from Government referred to above dated 21-4-39 should have been brought by Mr. van Manen, the General Secretary, to its notice before a reply was sent out to the Government.
- (iii) On a proposal by Sir John Lort-Williams and seconded by Dr. J. N. Mukherjee it was resolved that the following reply should be sent to the Government of Bengal's letter No. 477-Misc. of 21-4-39.

Question.

Answer.

261. Will the Hon'ble Minister in charge of the Finance Department be pleased to state:

(a) the amount of annual grant made by the Government of Bengal during the years, 1935, 1936 and 1937 to the Royal Asiatic Society of Bengal;

(a) During 1935, 1936 and 1937 the Royal Asiatic Society of Bengal received from the Government of Bengal grants amounting to Rs.46,440. Of this amount grants of Rs.4,800 (an annual grant of Rs.1,600) were in direct aid of the Society's work and Rs.41,600 were earmarked for specific performances in connection with publication of oriental works in various languages.

(b) whether audited accounts are received from that body by the Government before the grant is made each year;

(b) Audited accounts of the Society are placed before its Annual Meeting held in February of each year and copies are supplied to the Government of Bengal whenever called for.

(c) whether items of expenditure undergone by that body are subjected to departmental examination by the Government before the grant is sanctioned year after year;

(c) The Society is not aware whether any departmental examination of the items of expenditure is carried out by Government before the grants are renewed.

(d) the total income of that body in the years 1935, 1936 and 1937 and expenditure in each of those three years on salaries and allowances of the staff;

(d) The total income of the Society during the years 1935, 1936 and 1937 amounted to Rs.2,00,231-2-4 including the annual grants for specific purposes.

The total expenditure on staff for salaries and allowances during each of these years was in 1935 Rs.20,000, in 1936 Rs.22,088 and in 1937 Rs.21,098, total Rs.63,186. This includes Rs.29,500 paid to the General Secretary referred to in answer (e) and is made up as follows:

1935	..	Rs. 9,000
1936	..	„ 11,500
1937	..	„ 9,000

(e) the total amount that has been drawn by the General Secretary from 1935-1937; and

(e) The reply is given in answer (d).

(f) whether the office of the General Secretary was honorary before the present incumbent of the post came in?

(f) With regard to question (f) this is a matter of internal administration which concerns the Society alone. However for your information the Council has no objection to stating that some 16 years ago with a view to better administration, it was decided to make the present incumbent of the office, General Secretary, subject to annual re-election according to Rules, on the condition that he devoted his whole time to the work of the Society, and a payment was made to him of Rs.500 monthly which was increased subsequently to Rs.750. This arrangement is still in force.

3-5-39.

No. 1. (Special.)

Recommendation Finance Committee No. 3 (c) of 29-5-39. Correspondence re: Society's income for 1935-1937. Record (minute of dissent by Mr. Johan van Manen was also recorded). Accepted by Council.

No. 15.

29-5-39.

Re-investment of Rs.10,000, on fixed deposit. Re-invest.

No. 1.

28-8-39.

Recommendation Finance Committee No. 6 of 18-9-39. Meeting of Finance Committee and payments during October, 1939 (Puja Holidays). Finance Committee to meet early in October, 1939. Accepted by Council.

No. 14.

25-9-39.

Recommendation Finance Committee No. 13 of 28-11-39. Permanent Reserve. Transfer of amount received through admission fees, 1938-

1939 (postponed from the previous meeting item No. 7). Transfer in the usual manner. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 7 of 24-11-39. Bad debts written off owing to deaths, resignations, operation of Rule 38, etc. Write off. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 3 of 7-12-39. Authority for payment of bills by the General Secretary and Treasurer till next Finance Committee Meeting. Grant. Accepted by Council.

No. 15.

12-12-39.

GRANTS—

Correspondence with the Government of India, Department of Education, Health and Lands, in connection with the Annual Grant to the Society. Record.

No. 5.

30-1-39.

Letter from Sir James Grigg, late Finance Member, Government of India, concerning the Arabic and Persian grant from the Central Government. Record.

No. 12.

29-5-39.

HONORARY FELLOWS—

Proposal for the election of Honorary Fellows (names proposed Sir S. Radhakrishnan, Dr. H. Luders, Marquis of Zetland and Sir Jadunath Sircar). Unanimously recommended for election.

No. 9.

31-7-39.

Letter of thanks from Sir Jadunath Sircar for his election as an Honorary Fellow of the Society. Record.

No. 9.

25-9-39.

Letter of thanks from Sir S. Radhakrishnan for his election as an Honorary Fellow of the Society. Record.

No. 10.

25-9-39.

Letter of thanks from the Most Hon'ble the Marquis of Zetland for his election as an Honorary Fellow of the R.A.S.B. Record.

No. 7.

30-11-39.

INDIAN SCIENCE CONGRESS ASSOCIATION—

Letter of thanks from the General Committee of the Indian Science Congress Association. Record.

No. 3.

30-1-39.

Recommendation Finance Committee No. 6 of 24-4-39. Letter dated 11-4-39 from the Treasurer, Indian Science Congress Association, to the Imperial Bank of India, Park Street, concerning separation of accounts from the Society. Accepted by Council. Give effect to proposals.

No. 14.

24-4-39.

Letter from the General Secretary, Indian Science Congress Association. Refer to the Special Enquiry Committee.

No. 4.

29-5-39.

Recommendation Finance Committee No. 9 of 5-10-39. Indian Science Congress Association contribution for 1939. Postpone until next meeting. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 15 of 24-11-39. Contribution from the I.S.C.A. for 1939 (postponed from the previous meeting item No. 9). The I.S.C.A. to be asked to contribute Rs.200. Accepted by Council.

No. 9.

30-11-39.

INVITATIONS—

Invitation to the Society to send delegates from the Society to attend the XVIIIth International Geological Congress to be held in London in 1940. Dr. Heron be requested to represent the Society.

No. 6.

30-1-39.

Invitation from the Seventh International Congress of Genetics.

Invite Sir Thomas Holland, Lt.-Col. E. D. W. Greig and Lt.-Col. A. D. Stewart to arrange amongst themselves for a suitable representation of the Society at the Congress.

No. 4.

24-4-39.

Invitation from the Secretary, Bengali Literary Conference at Comilla. Record.

No. 5.

24-4-39.

Invitation from the Royal Swedish Academy of Sciences. Invite Prof. Sten Konow to represent the Society.

No. 6.

24-4-39.

Invitation from the President and Trustees of the San Jacinto Museum of Natural History Association. Record.

No. 7.

24-4-39.

Invitation from the Catholic University of America to send representatives of the Society to attend the 50th Anniversary celebration of the University. Send usual good wishes of the Society.

No. 2.

26-6-39.

Letters from the Secretary, Indian History Congress. Dr. Bhandarkar, Dr. R. C. Majumdar and Dr. U. N. Ghosal to be the Society's delegates.

No. 2.

28-8-39.

Letter dated the 18th August, 1939, from Prof. Kalidas Nag. As the Society has not been invited to send a delegate it is regretted that the offer must be declined.

No. 5.

28-8-39.

Letter from Lt.-Col. E. D. W. Greig, who was appointed one of the delegates of the Society at the Seventh International Congress of Genetics, Edinburgh, forwarding a copy of the programme of the Congress for the information of the Society. Record.

No. 8.

25-9-39.

Letter from the Dy.-President, All-India Oriental Conference at Hyderabad, asking the Society to nominate delegates and to assist the Conference financially. No action.

No. 3.

30-11-39.

LEASE—

Recommendation Finance Committee No. 3 (e) of 17-3-39. Arrears of rent from Messrs. Lekhraj Shewakram & Co., Lessee of 1-B, Park Street, for 5 months, November 1938 to March 1939. Professional opinion to be asked from Messrs. R. M. Chatterjee & Co., Solicitors (Calcutta 2868), 6, Old Post Office Street. Council order: action to be held over till dates mentioned in their letter of 27-3-39.

No. 5.

20-3-39.

Recommendation Finance Committee No. 7 of 24-4-39. Renewal of lease: Standard Vacuum Oil Co. Ask opinion, as to the advisability of the exercise of the option being granted, from J. N. Basu, Esq., Solicitor, Messrs. B. N. Basu & Co., Temple Chambers, Old Post Office Street, Calcutta. Accepted by Council.

No. 14.

24-4-39.

Letter from Solicitor, Mr. J. N. Basu, concerning the renewal of the lease by the Standard Vacuum Oil Co. Accept and record.

No. 6.

29-5-39.

Renewal of lease of premises at 1/2, Park Street by the Standard Vacuum Oil Co. Documents to be prepared by Messrs. B. N. Basu & Co.

No. 10.

26-6-39.

Correspondence with the Standard Vacuum Oil Co. concerning lease. Record with satisfaction.

No. 8.

31-7-39.

LECTURES—

Consideration of holding General lectures, during winter, 1939-40. General Secretary to arrange.

No. 17.

31-7-39.

LIBRARY—

On the proposal by the Maharajadhiraja Bahadur of Burdwan resolved that a list of books and MSS. lost during the last ten years be prepared and submitted to the Council.

No. 20.

24-4-39.

Recommendation Finance Committee No. 6 of 26-6-39. Estimates of binding of books of plates, etc. Accept estimate of Yanus Ali. Give Yanus Ali a trial order up to Rs.500 in the first instance. Accepted by Council.

No. 5.

26-6-39.

Recommendation Library Committee No. 6 of 31-7-39. Letter from the President, Anthropological Institute, Calcutta, requesting the Society to subscribe to its Journal. Subscribe. Accepted by Council.

No. 14.

31-7-39.

Recommendation Library Committee No. 3 of 21-8-39. Report on the binding of books of plates, etc. done by Yanus Ali as a trial order.

As the results of the trial order given to Yanus Ali have proved satisfactory the balance of the special binding work be given to him. Accepted by Council.

No. 9.

28-8-39.

Recommendation Library Committee No. 4 of 21-8-39. The General Secretary reported that the stock-taking of the General Section of the Library had commenced; that so far as can be ascertained this had not been done for about 60 years; and that so far a considerable number of works had been found of which no entries were traceable in the records. On the proposal of Mr. Mahfuzul Haq, seconded by Dr. Hidayat Hosain, it was unanimously resolved to record the Committee's appreciation of the work being done by the General Secretary and the staff, for the measures taken for the proper preservation of the Society's possessions and putting the library on a sound working basis. Accepted by Council.

No. 9.

28-8-39.

Letter from Mr. S. Mozumdar requesting the loan of the Descriptive Catalogue of Persian MSS. with its two supplements by Ivanow. Grant. Apply rules.

No. 19.

28-8-39.

Recommendation Finance Committee No. 5 of 5-10-39. Application from Yanus Ali Bhuya, Bookbinder, asking for an enhancement of prices on his estimates for the special binding of the books and volumes in the South room library. Grant an increase of Rs.2 per book or 25% of the amounts originally estimated, whichever is less. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 14 of 28-11-39. Consideration of the Permanent Library Endowment Fund (postponed from the previous meeting, item No. 8). Transfer Rs.1,600 from the temporary reserve. Accepted by Council.

No. 9.

30-11-39.

Letter from Lt.-Col. N. Barwell forwarding Rs.100 as a donation to the Library Endowment Fund. Record. Letter of thanks to be sent to Lt.-Col. Barwell.

No. 24.

12-12-39.

LOAN OF MSS.—

Application for loan of manuscript: 'Vivaranaprimeyasangraha' from the Registrar, University of Madras. Lend against indemnity bond to the value of Rs.200.

No. 8.

30-1-39.

Application for loan of MSS. from:

- (a) Mr. T. R. Chintamani, Madras University, for 'Smriti-manjari'. Decline.
- (b) The Director, Adyar Library, for two MSS. of 'Asvalayana Ghyha Sutra'. Lend against indemnity bonds to the value of Rs.200 each.
- (c) Mr. O. C. Gangoly for 'Nataka Nirnaya'. (Renewal application.) Lend against indemnity bond to the value of Rs.200 for a further period of six months, this to be the final period.
- (d) The Vice-Principal and Curator, Prachya Grantha Samgraha, Ujjain, for 'Nataka Nirnaya'. Decline, as the manuscript is out on loan.

No. 7.

27-2-39.

Application for the loan of 'Apastambhasmriti' manuscript from the Honorary Director, Adyar Library, Madras. Lend against indemnity bond to the value of Rs.500.

No. 3.

20-3-39.

Application for an extension of the period of loan of manuscripts from Dr. N. N. Law and Mrs. Roma Chaudhuri.

Grant extension to Dr. Law and Mrs. Roma Chaudhuri as requested six and three months respectively.

No. 11.

24-4-39.

Application for the loan of manuscripts from:—

(a) Benares Hindu University for two MSS. of Dhurt Swamibhashya. Grant the loan of the two MSS. for 3 months against indemnity bonds to the value of Rs.300 and Rs.250 respectively.

(b) Travancore University for 'Pasupata Sutras'. Grant the loan for three months against indemnity bond to the value of Rs.100. Loan to be acknowledged in any publication produced with the aid of the manuscript.

(c) Mr. T. R. Chintamani, Madras University, 'Amarakosa Vyakhya' by Rayamukuta.

Grant the loan for three months against indemnity bond to the value of Rs.500.

(d) Mrs. Roma Chaudhuri for the MS. of Vaidyanatha-prasada-prasasti.

Grant the loan for three months against indemnity bond to the value of Rs.50.

(e) Mr. Ishwari Prasad, Allahabad University, for the MS. of Salatin-i-Afghana.

Decline with explanation.

No. 12.

24-4-39.

Application for the loan of 'Sarboltasa Tantra' manuscript by Prof. Rashmohan Chakravarti, Comilla. Loan may be granted at a later date when the MS. is available.

No. 14.

29-5-39.

Letter from the Yale University asking to extend the period of loan of MS. No. 8728 (b) until the 1st October, 1939. Grant.

No. 25.

29-5-39.

Letter from Bhandarkar Oriental Research Institute, Poona, requesting extension of the period of loan of two manuscripts of 'Malati Madhava' which the Society issued on loan on 30-3-39. Extend.

No. 10.

31-7-39.

Application for loan of four Manuscripts of the Mahabharata by Mr. K. M. Sen, Principal, Vidyabhavana, Santiniketan, for collation purposes in connection with the publication of the Mahabharata by the Bhandarkar Research Institute, Poona.

Grant the loan of three MSS. of Mahabharata Santi Parva against indemnity bonds to the value of Rs.400, Rs.500 and Rs.425 respectively. The fourth MSS. which is old and damaged cannot be lent out but may be consulted in the Society's rooms or a photostat copy may be made at the borrower's expense.

No. 11.

31-7-39.

Application for an extension of the period of loan of two MSS. (Asvalayana Grihya Bhashya) from the Adyar Library, Madras. Grant.

No. 23.

31-7-39.

Application for an extension of loan of the MS. Vivarnaneyasaangraha by the Registrar, University of Madras, for one month, and application for an extension of the period of loan of the Mahabharata MSS. by the Principal of the Viswabharati. Grant on the usual conditions.

No. 6.

28-8-39.

Letter from the Secretary, Yale University, requesting an extension of the period of the loan of MS. Sabha-Parvan until the 1st March, 1940. Grant.

No. 14.

28-8-39.

Letter from Dr. Ishwari Prasad, Allahabad, through Dr. M. N. Saha, asking for the loan of Ahmad Yadgar's Salatin-i-Afghana.

Resolved that he be informed that Salatin-i-Afghana has now been published by the Society and is available for purchase; that applications for the loan of MSS. are dealt with separately and that a separate indemnity bond is required to be executed for the loan of each MS. and that Dr. M. N. Saha be requested to ask him to become a member of the Society.

No. 17.

25-9-39.

Recommendation Library Committee No. 4 of 24-11-39. Request from the University of Madras for the loan of 2 MSS. 1. Nrisimhasarvasvakavya and 2. Kavindrakalpadruma. Lend against indemnity bond for Rs.300 and Rs.200 respectively. Accepted by Council.

No. 10.

30-11-39.

Recommendation Library Committee, No. 5 of 24-11-39. Request by Prof. Raghu Vira, Director, International Academy of Indian Culture, Lahore, for the loan of 5 MSS. of Caraka-samhita.

Postpone till next meeting. Accepted by Council.

No. 10.

30-11-39.

Recommendation Library Committee No. 1 of 12-12-39. Request of Prof. Raghu Vira, Director, International Academy of Indian Culture, Lahore, for the loan of 5 MSS. of Caraka-samhita. Lend two of the MSS. against indemnity bonds for the value of the MSS. selected. Accepted by Council.

No. 16.

12-12-39.

Recommendation Library Committee, No. 3 of 12-12-39. Request from the Principal, City College, Calcutta, for the loan of 16 MSS. from the Society's Library. The previous resolution of the Council of 27-4-1936 that '*residents of Calcutta* shall not except for very special reasons be permitted to borrow MSS. from the Society's Library but shall be permitted to consult them in the Society's premises' should be adhered to. Also resolved that the General Secretary take steps in consultation with Dr. J. N. Mukherjee and other members of the Council to have the *Famulus Camera* overhauled and put in order for copying work. Accepted by Council.

No. 16.

12-12-39.

Recommendation Library Committee No. 5 of 12-12-39. Request from Prof. S. K. Rahman for the loan of 4 MSS. of Kalimatush-Shuara.

The previous resolution of the Council of 27-4-36 that '*residents of Calcutta* shall not except for very special reasons be permitted to borrow MSS. from the Society's Library but shall be permitted to consult them in the Society's premises' should be adhered to. Accepted by Council.
No. 16. 12-12-39.

MANUSCRIPTS—

Report on MSS. lent out during the month. Record. Solicitor's letter to be sent to Dr. Ziauddin for not returning a valuable MS. belonging to the Society.

No. 7. 28-8-39.

Report of the General Secretary regarding the arrangements made for copying MSS. for: (1) The Editor, *Catalogus Catalogorum*, University of Madras, and (2) the Curator, Bhandarkar Institute, Poona. Record.
No. 16. 28-8-39.

Recommendation Library Committee No. 2 of 18-9-39. On the motion of Prof. Mahfuz-ul Haq seconded by Dr. M. Hidayat Hosain it was unanimously resolved that a sub-committee consisting of Dr. Bains Prashad, Dr. M. Hidayat Hosain, and the Honorary General Secretary be appointed for consideration of the purchase of Persian and Arabic Manuscripts. Accepted by Council.

No. 12. 25-9-39.

MEDALS—

Letter of thanks from Dr. J. H. Hutton for the award to him of the Annandale Memorial Medal. Record.

No. 1. 30-1-39.

Letter of thanks from Dr. A. J. Wensinck. Record.

No. 3. 27-2-39.

Letter of thanks from Dr. Bains Prashad. Record.

No. 5. 27-2-39.

Letter of thanks from Sir David Prain. Record.

No. 1. 24-4-39.

Letter of thanks from Prof. D. 'Herelle for the award to him of the Sir William Jones Memorial Medal. Record.

No. 3. 24-4-39.

Suggested design for the die for the Indian Science Congress (Calcutta) Medal, submitted to the Council, R.A.S.B., for consideration. Call for other designs.

No. 25. 31-7-39.

Appointment of Advisory Boards for the awards of:

(a) Annandale Memorial Medal.

The Board to consist of Rai Bahadur R. P. Chanda, J. P. Mills and the Ex-officio members (Anthropological Secretary, Biological Secretary, Medical Secretary and the General Secretary).

(b) Barclay Memorial Medal.

The Board to consist of Bt.-Col. R. N. Chopra, Dr. Bidhan Chandra Roy and the Ex-officio members (Biological Secretary, Medical Secretary and the General Secretary).

No. 17. 30-11-39.

Recommendation of the Barclay Memorial Medal Advisory Board.
Accept the Board's recommendation: Major-General Sir R. McCarrison.
No. 12. 12-12-39.

Recommendation of Annandale Memorial Medal Advisory Board.
Accept the Board's recommendation: Dr. Frank Weidenreich.
No. 13. 12-12-39.

MEDICAL SECTION—

Resolved that Col. R. N. Chopra, Sir U. N. Brahmachari and Major C. L. Pasricha be invited kindly to put up proposals before the Council with regard to the resuscitation of the Society's Medical Section.
No. 19. 24-4-39.

Minutes of the Medical Sub-Committee Meeting of 17-7-39, forwarded by the Medical Secretary, R.A.S.B., for consideration of the Council.
Accept.
No. 24. 31-7-39.

MEMBERSHIP—

List of members, corrected to the close of 1938, for submission to the Ordinary Annual Meeting. Member list to be submitted.
No. 2. (Special.) 6-2-39.

Recommendation Finance Committee No. 6 of 27-2-39. List of members in arrears with subscriptions for removal under Rule 38. Apply rules. Accepted by Council.
No. 11. 27-2-39.

Resignations. Resolved that resignations should be reported to the Council together with the reasons given therefor.
No. 9. 20-3-39.

Resolved that the General Secretary do report on the resignation of membership of Mr. P. Acharya to the Council through the Special Enquiry Committee together with their comments thereon. That the General Secretary should write a suitable letter of regret to Mr. Acharya explaining that the Council is looking into the cause of the mistake and asking him to withdraw his resignation.

The General Secretary also to return the paper under discussion to Mr. P. Acharya.
No. 10. 20-3-39.

Note concerning subscription being paid by 4 members at Non-Resident rate although Resident Members. Acting General Secretary to take action.
No. 21. 29-5-39.

Note concerning Count Kozui Ohtani. Removal under Rule 38 to be rescinded. Acting General Secretary to address Count Ohtani suitably.
No. 22. 29-5-39.

Report of the General Secretary on the membership of Count Ohtani. Resolved that he be made a life member.
No. 18. 28-8-39.

Letter from Mr. H. C. Mandhata explaining his position in regard to non-payment of subscription and requesting the Society to take a liberal view in his case owing to his financial difficulties. General Secretary to decide.

No. 5.

30-11-39.

MEETINGS—

Correspondence with Mr. C. C. Das-Gupta. Council meeting cannot be pushed forward but attempts should be made to arrange monthly meeting programmes one month earlier.

No. 13.

28-8-39.

Ordinary Monthly Meeting during recess months.

Resolved that the next Monthly Ordinary General Meeting be held in November 1939.

No. 20.

25-9-39.

MISCELLANEOUS—

Abstract of proceedings of the Council for 1938, for inclusion in the Annual Report [Rule 48(b)]. Abstract to be included.

No. 1. (Special.)

6-2-39.

Letter from Dr. S. L. Hora. The General Secretary to circulate a note to the Council.

No. 9.

27-2-39.

Letter from the President, 3rd Session, Kuki Association Conference. Refer to Dr. Hutton for an expression of opinion to be placed before the Council.

No. 15.

27-2-39.

Reply from Dr. J. H. Hutton with regard to a protest by the Kuki Association. Accept Dr. Hutton's draft and forward it to the President of the Kuki Association; also resolved to convey the thanks of the Society to Dr. Hutton for the kind services rendered by him.

No. 8.

24-4-39.

Letter from Mr. N. D. Dandawati regarding the publication of certain Sanskrit Manuscripts belonging to him. Accept the suggestion of Prof. Chintaharan Chakravarti.

No. 9.

24-4-39.

Letter from Dr. S. L. Hora together with a note by the General Secretary.

Resolved that a letter be drafted to Dr. Hora and forwarded after approval by the President and Sir John Lort-Williams under the signature of the President stating that the Council decided to take no notice of the article in the Modern Review because it was an anonymous communication but that the points raised by Dr. Hora in his letter have been carefully considered by the Council, and most of them have been referred to a Special Enquiry Committee which is still considering what action should be taken.

The Council, however, takes strong exception to Dr. Hora's suggestion that the administration of the Society is guilty of malpractices, and unless Dr. Hora withdraws this expression unreservedly the Council will take such action as their legal advisers may suggest.

No. 13.

24-4-39.

Letter from the Director of Indic Studies, Library of Washington, concerning the establishment of a department of Indic Studies and requesting the Society to publish a notice thereof in the Society's 'Journal'. Approve the action taken by the Acting General Secretary.
No. 5. 29-5-39.

Letter from the Honorary Secretary, Indian Society of Pathology and Microbiology, enquiring whether the Society would sponsor his organisation.

Ask the Society to forward details of the ways in which the Society can sponsor it.

No. 8.

29-5-39.

Correspondence concerning cessation of excavations at Mohenjo Daro. Acting General Secretary to consult the Director Archaeological Survey of India and other experts and to submit a draft reply to the next Council meeting.

No. 20.

29-5-39.

On the proposal of the Maharajadhiraja of Burdwan it was resolved that the Special Enquiry Committee should consider and make recommendations on the feasibility of selling some of the Society's Oil Paintings to provide funds for the renovation and preservation of the Library and other valuable possessions.

No. 26.

29-5-39.

Recommendation Finance Committee No. 4 of 26-6-39. Letter dated the 24th May, 1939 from the R.A.S., North China Branch, asking for a contribution. Send Rs.100 with a letter couched in suitable terms. Accepted by Council.

No. 5.

26-6-39.

Correspondence with Dr. Clement C. J. Webb regarding the presentation to the Society of an original letter from James Princep to the Rev. W. H. Mill, D.D. Record.

No. 11.

26-6-39.

Letter from the South Indian National Association and Ranade Library Madras. Accept General Secretary's suggestion.

No. 1.

31-7-39.

Correspondence with the Director-General of Archaeology in India. The General Secretary to address the Government of India on the subject.

No. 6.

31-7-39.

Correspondence with Sir U. N. Brahmachari. Action being taken. Record.

No. 18.

31-7-39.

Mr. Mahfuz-ul Haq withdrew the suggestion made by him in paragraph 1 of his letter dated the 8th August, 1939 in respect of an allowance to Maulvi S. M. Ahmed. It was resolved to refer the suggestions made in paragraphs 2, 3 and 4 of that letter to the Publication Committee and the suggestions made in paragraphs 5 and 6 to the Finance Committee.

No. 3. (Special.)

10-8-39.

Report on the Society's collection of coins and gems. Rai Durga Prasad and Mr. Ramachandran to be asked to submit a preliminary report.

No. 3.

28-8-39.

Recommendation Publication Committee No. 1 of 21-8-39. Correspondence and cuttings from newspapers and leaflets regarding financial assistance for publishing Sanskrit works on the 'Game of Chess' by Mr. Kulkarni Haldikar. Accept the Philological Secretary's recommendation. Accepted by Council.

No. 10.

28-8-39.

To decide on the action to be taken by the Society in regard to the present emergency. On the motion of Sir David Ezra seconded by Col. R. N. Chopra it was unanimously resolved that the President and Council of the Royal Asiatic Society of Bengal, Calcutta, do offer to the Government of India and the Government of Bengal the loyal services of the Society in the present war. The General Secretary was directed to forward a copy of this resolution by post to the Private Secretaries to His Excellency the Viceroy and Governor-General and to His Excellency the Governor of Bengal, respectively, and to the former also by telegram.

No. 1. (Special.)

11-9-39.

Letter of thanks from the President and the Secretary, Royal Asiatic Society, North China Branch, for a donation of Rs.100 made by the R.A.S.B. to the building fund of the Society. Record.

No. 3.

25-9-39.

Correspondence with Mr. T. N. Ramachandran, Offg. Superintendent, Archaeological Survey of India, Calcutta, regarding the collection of coins and gems of the Society, as well as the copper-plate inscriptions. Correspondence with Rai Durga Prasad, Benares, on the same subject.

Resolved that Mr. Ramachandran be asked to examine and report on the gems and coins. Further resolved that the copper-plate inscriptions cannot be sent out of the Society.

No. 4.

25-9-39.

Letter from the Secretary, Indian History Congress, 1939, Calcutta, asking the Society to place some of the coins, paintings, old records, etc. belonging to the Society at his disposal for exhibition at the Congress.

Resolved that all publications issued by the Society be lent for the exhibition. Further resolved that the delegates to the Indian History Congress be invited to visit and inspect the Society's possessions.

No. 7.

25-9-39.

Correspondence with the Private Secretary to His Excellency the Viceroy in respect of the resolution passed by the Council in its Special Meeting on the 11th September, 1939. Record.

No. 18.

25-9-39.

Correspondence with the Secretary to His Excellency the Governor of Bengal in regard to the resolution passed by the Council at the Special Meeting on the 11th September, 1939. Record.

No. 19.

25-9-39.

Letter of thanks from Dr. A. W. Pavlow, Moscow, for the congratulations of the Society on the occasion of his 70th birthday. Record.

No. 8.

30-11-39.

ORDINARY FELLOWS—

Recommendation of the meeting of Resident Fellows on 6-1-39.
Accept.

No. 9. 30-1-39.

Letters of thanks from Drs. C. S. Fox and B. S. Guha. Record.
No. 4. 27-2-39.

Resolution passed by the Resident Fellows at their meeting on the 26th September, 1938, regarding the position of Fellows with regard to nomination for the award of medals.

Refer to the Special Enquiry Committee as the revision of regulations is also involved.

No. 9. 26-6-39.

Recommendations of the Special Meeting of the Resident Fellows of the Society held on the 14th August, 1939. Accept.

No. 4. 28-8-39.

PATRON—

Letter dated 25-11-39 from the Assistant Secretary to His Excellency the Governor of Bengal intimating the acceptance by His Excellency of the Joint Patronage of the Society. Record. The word 'joint' to be omitted.

No. 6. 12-12-39.

PROVIDENT FUND—

Recommendation Finance Committee No. 3 (c) of 17-3-39. Re-investment of the discharge value of Rs.6,000 of six Postal Cash Certificates of Rs.1,000 each belonging to the Provident Fund of the Society. Invest in Fixed Deposit with the Imperial Bank of India, Park Street Branch, for 12 months. Accepted by Council.

No. 5. 20-3-39.

Recommendation Finance Committee No. 3 (b) of 29-5-39. Application from Cashier for a loan of Rs.400 from the Provident Fund. Grant loan of Rs.400 bearing interest at the rate of 3% per annum repayable by monthly instalments of Rs.20 each. Accepted by Council.

No. 15. 29-5-39.

Recommendation Finance Committee No. 2 (d) of 26-6-39. Application of Mr. N. Gupta, for a loan of Rs.195 from the Provident Fund. That the loan of Rs.195 be granted. The outstanding balance of the existing loan to be recovered from the amount now recommended. The loan to bear interest at 3% per annum and to be recovered in monthly instalments of Rs.10. Accepted by Council.

No. 5. 26-6-39.

Recommendation Finance Committee No. 4 (a) of 28-8-39. Payment to Babu B. L. Dutt, retiring Librarian, of Rs.4,534-8-8 being the total amount standing to his credit in the Provident Fund Account of the Society, as at the end of August, 1939. Put up to Council. Council order: Pay B. L. Dutt's provident fund and gratuity.

No. 8. 28-8-39.

Recommendation Finance Committee No. 4(c) of 28-8-39. Application dated 18-8-39 from John Robert Seal, Esq., Asst. Secy., for joining the Provident Fund of the Society. Permit. Accepted by Council.
No. 8. 28-8-39.

Recommendation Finance Committee No. 4(e) of 28-8-39. Application dated 15-8-39 from Press Clerk for a loan of Rs.400 from the Provident Fund. Put up at the next meeting as necessary details are not before the Committee. Accepted by Council.
No. 8. 28-8-39.

Application from Mr. P. O. Matthai for a loan of Rs.600 from the Provident Fund. Record.
No. 1. 25-9-39.

Recommendation Finance Committee No. 3(a) of 18-9-39. Application dated 15-8-39 from Press Clerk for a loan of Rs.400 from the Provident Fund. Grant on the usual terms. Accepted by Council.
No. 14. 25-9-39.

Recommendation Finance Committee No. 4 of 18-9-39. Loan to Mr. P. O. Matthai of Rs.600 from the Provident Fund on the usual terms. Record. Accepted by Council.
No. 14. 25-9-39.

Recommendation Finance Committee No. 16 of 24-11-39. Application from Mr. S. K. Raye for a loan of Rs.250 from the Provident Fund. Grant a loan of Rs.250 bearing interest at 3% per annum, repayable by monthly instalments of Rs.15. Accepted by Council.
No. 9. 30-11-39.

Recommendation Finance Committee No. 2 (a) of 7-12-39. Society's contribution to the Provident Fund for 1939. Rs.701-1-9. Transfer. Accepted by Council.
No. 15. 12-12-39.

Recommendation Finance Committee No. 7 of 7-12-39. Application dated 7-12-39 from Mr. N. Gupta for an advance of Rs.25 from his December salary. Decline, but grant an advance of Rs.25 from the Provident Fund to be repaid as the General Secretary may direct. Accepted by Council.
No. 15. 12-12-39.

PUBLICATIONS—

Correspondence with the B. M. Press concerning the printing of arrears of publications. The Special Enquiry Committee to make recommendations, after obtaining the views of the General Secretary (on special duty).
No. 11. 25-9-39.

Letter from the All-India Industrial Exhibition, Quetta, asking for permission to publish J. F. Garwood's paper 'Ancient Mounds in the Quetta District', in their Guide Book. Grant. The usual acknowledgment to be made.
No. 24. 29-5-39.

Recommendation Finance Committee No. 5 of 26-6-39. Request from Mr. D. S. Wells asking whether any remuneration can be given to Rev. J. L. Wenger for correcting proofs of the Lushai Dictionary.

Decline. Request the author to correct the proofs and incidental expenses only should be paid. Accepted by Council.

No. 5.

26-6-39.

Letter from Mr. C. Chakravarti of 21-7-39. Permission of the Society must be obtained for the publication of any extracts from our translations of MSS. borrowed from the Society. When material other than extracts or translations obtained from MSS. loaned by the Society is made use of by the borrowers in any paper or publication issued by them, a simple acknowledgment in the work of the source of the material used will suffice.

No. 22.

31-7-39.

Letter from Dr. K. P. Biswas. Refer the first part to the Publication Committee. No publication of epitomes in daily, weekly or monthly Journals.

No. 12.

28-8-39.

Recommendation Publication Committee No. 1 of 18-9-39. Letter from Dr. K. P. Biswas dated 23rd August, 1939. (1) Resolved that the thanks of the Committee be conveyed to Dr. K. P. Biswas for his suggestions. (2) Summaries of discussions at General Meetings to be incorporated in Advance Proceedings, the issue of which, it is hoped, will recommence from 1940. Accepted by Council.

No. 13.

25-9-39.

Recommendation Publication Committee No. 4 of 24-11-39. Application from Prof. Chintaharan Chakravarti for inserting his name on the cover of the 'Descriptive Catalogue of Sanskrit MSS.' Volume VIII, along with the name of MM. H. P. Shastri. Agree. His name should appear on both the cover and the Title-page. Accepted by Council.

No. 12.

30-11-39.

Recommendation Publication Committee No. 1 of 12-12-39. Revision of the Sanskrit portion of the 'Mahavyutpatti' by Alexander Csoma de Kőrös. Prof. D. Chattopadhyaya of Bethune College to edit the work at the usual remuneration of Rs.1-8-0 per page. Accepted by Council.

No. 17.

12-12-39.

Recommendation Publication Committee No. 7 of 12-12-39. Letter dated 12-12-39 from B. M. Press regarding the supply of blue cover boards for the Society's publications. General Secretary to decide on a suitable cheap cover in consultation with the Baptist Mission Press. Accepted by Council.

No. 17.

12-12-39.

REPRESENTATION—

Representation of the Society at the Tenth All-India Oriental Conference, December, 1939. Bring up in the July meeting.

No. 2.

20-3-39.

Representation on the Selection Committee, Kamala Lectureship, Calcutta University. The Society's representative to be Dr. Bains Prasad.

No. 10.

29-5-39.

Letter from Prof. Sten Konow with reference to the Society's request to him to represent the Society at the bicentenary celebration of the

Royal Swedish Academy at Stockholm. Decline with regret. No precedence.

No. 3.

26-6-39.

Letter from the Registrar, Calcutta University, requesting the Council of the Society to nominate an expert in Anthropology to serve as a member of the Selection Committee for the appointment of a University Professor of Anthropology.

On the proposal of Mr. H. C. Chakladar seconded by Mr. Mahfuz-ul Haq it was resolved that Dr. B. S. Guha be nominated as the Society's representative. If, however, Dr. B. S. Guha has been nominated by any other body, then Rai Bahadur R. P. Chanda to be the Society's nominee.

No. 5.

31-7-39.

Letter from Sir Thomas Holland of 19-6-39, intimating his inability to represent the Society at the International Congress of Genetics at Edinburgh in August, 1939, as he would be out of Scotland at that time. Record.

No. 20.

31-7-39.

REQUESTS—

Request from the Curator, Natural History Museum, Darjeeling, for permission to publish an abridged account of the article 'Fishes of Northern Bengal' published in the Society's Journal.

Observe the practice that no reprints of articles published in the Society's Journal be allowed within a date three years from date of publication. Allow the publication of an abstract of the paper, but not of any plate before that date. Draw the attention of the applicant to the availability for sale of copies of full reprints of the article.

No. 17.

30-1-39.

Recommendation Library Committee No. 3 of 27-2-39. Letter from the Mysore University requesting free supply of the Society's Catalogues of books and Manuscripts. The Society's Catalogue of Sanskrit MSS. may be given free to the University of Mysore. Accepted by Council.

No. 13.

27-2-39.

Recommendation Library Committee No. 4 of 27-2-39. Request for presentation of 'A Descriptive Catalogue of Sanskrit MSS.' in the collection of the Asiatic Society of Bengal by MM. Haraprasad Shastri, Vol. I, and following, from Universitets Bibliotheket, Lund. Exchange. Accepted by Council.

No. 13.

27-2-39.

Recommendation Library Committee No. 12 of 27-2-39. Letter from 'Chemisches Zentralblatt' requesting free supply of the Society's publications. Decline. Accepted by Council.

No. 13.

27-2-39.

Request for a free supply of the Society's publications by the South Indian National Association and Ranade Library, Madras. Postpone. Send the file to Dr. S. P. Mookerjee.

No. 9.

29-5-39.

Request from Dr. M. N. Saha for permission to publish a photographic copy of Princep's letter to Mill in 'Science and Culture'. Grant.

No. 12.

26-6-39.

Letter from Cambridge Philosophical Society, Cambridge, requesting presentation of parts 4-6 of the Memoirs of the Society, 'Geographic and Oceanographic Research in Indian Waters' by Col. Sewell. Present.
No. 3. 31-7-39.

Appeal for financial help from the Bishop of Hongkong for the Foreign Auxiliary to the National Red Cross Society of China. Resolved that a reply expressing the sympathy of the Society be sent.
No. 2. 25-9-39.

Request from Dr. R. C. Majumdar to take a photographic copy of two pages of MS. No. 3078, Ramacharita, for a new edition of that particular work. No action.
No. 4. 30-11-39.

Letter dated 23-11-39 from the editor of the Catalogus Catalogorum, Madras, requesting either presentation, loan or purchase of H. P. Shastri: Notices Pt. IV, Nepal Catalogue, Vol. II and Last Report 1906-11. Present.
No. 8. 12-12-39.

STAFF—

Recommendation Finance Committee No. 4 of 30-1-39. The annual increment to the staff. Increment to be given to those who are on scale. The Asst. Secretary's case to be considered after confirmation. Accepted by Council.
No. 10. 30-1-39.

Recommendation Finance Committee No. 3 of 24-4-39. Application for increment of salary from Pt. B. B. Mukherjee. Confirm, put on grade, Rs.50-3-80, and give Rs.6 increment (two increments of Rs.3) from the current month (1st April).
No. 14. 24-4-39.

Recommendation Finance Committee No. 4 of 24-4-39. Application for pay for the period of sickness by Chaprassi, Ram Dhyani Singh. Give one month's leave without pay and equivalent of one month's pay as compassionate allowance. Accepted by Council.
No. 14. 24-4-39.

Recommendation Finance Committee No. 3(a) of 29-5-39. Application dated 5-5-39 from Chaprassi, Rajpati Ojha, for loan of Rs.50 from the Society. Decline. Accepted by Council.
No. 15. 29-5-39.

Application from Trin Chen for employment by the Society for cataloguing the Tibetan manuscripts of the Society. Appoint.
No. 4. 31-7-39.

Recommendation Finance Committee No. 4(b) of 28-8-39. Payment to Babu B. L. Dutt, retiring Librarian, of Rs.1,050 being the amount of gratuity (6 months' pay) granted to him in terms of the report of the Special Enquiry Committee. Put up to Council. Council order: Pay B. L. Dutt's provident fund and gratuity.
No. 8. 28-8-39.

Recommendation Finance Committee No. 6 of 28-8-39. Application from Mr. J. R. Seal, Asst. Secretary, for an advance of salary. Circulate. Accepted by Council.

No. 8.

28-8-39.

Recommendation Finance Committee No. 3(b) of 18-9-39. Application from Mr. J. R. Seal, Asst. Secretary, for an advance of Rs.800 from the Society. Grant as a very special case without prejudice and without establishment of any precedent. Accepted by Council.

No. 14.

25-9-39.

Contract form of appointment and termination of services of Mr. J. R. Seal, Asst. Secretary, R.A.S.B. Accept as amended.

No. 1.

30-11-39.

Recommendation Finance Committee No. 4 of 5-10-39. Application from Inayat Karim for a pension. Put up at the next meeting with a further report. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 2(b) of 24-11-39. Application, dated 30-10-39 from office duffry, Sheikh Chunnun, for a loan of Rs.30. Grant a loan of Rs.30 repayable by monthly instalments of Rs.2. Accepted by Council.

No. 9.

30-11-39.

Recommendation Finance Committee No. 12 of 24-11-39. Consideration of application from Inayat Karim for a pension (postponed from the previous meeting Item No. 4). Grant a gratuity of Rs.25. Accepted by Council.

No. 9.

30-11-39.

Amended form of contract appointment and termination of services of Mr. J. R. Seal, Assistant Secretary, R.A.S.B.

Accept Sir John Lort-William's suggestion.

No. 9.

12-12-39.

Recommendation Finance Committee No. 2(c) of 7-12-39. Annual increment of salaries to staff. Grant as recommended by the Special Enquiry Committee. Accepted by Council.

No. 15.

12-12-39.

Recommendation Finance Committee No. 8 of 7-12-39. Temporary engagement of 4 additional bearers for the clearing of stock rooms, library and office, removal of wooden furniture and replacement of stock and library books until the 31st January, 1940. Engage additional bearers up to 4 in number on daily wages up to the 31st January, 1940, or such earlier date as they may actually be required. Accepted by Council.

No. 15.

12-12-39.

STEEL SHELVING—

Recommendation Finance Committee No. 3(d) of 27-7-39. Estimate for steel shelving. That the estimate of Messrs. Bungo Steel Furniture, Ltd., being the lowest, be recommended to the Council for acceptance. Accepted by Council.

No. 13.

31-7-39.

Letter from Bungo Steel Furniture, Ltd., regarding the difference of prices of steel goods owing to the state of emergency which has arisen since the estimates for steel racks, etc., was submitted. Further letter, dated 22nd September on the same subject.

Resolved that an increase of 10% on the estimate be allowed.

No. 6.

25-9-39.

VISIT—

Letter dated 18-11-39 from the Secretary, Indian Historical Records Commission, in connection with the proposed visit of the members of the Commission to the Society during the forthcoming session at Calcutta.

Approve.

No. 1.

12-12-39.

**List of
Patrons,
Officers, Council Members, Members,
Fellows, and Medallists
of the
Royal Asiatic Society of Bengal,
On the 31st December, 1939.**

PATRONS OF THE ROYAL ASIATIC SOCIETY OF BENGAL.

1936 ..	.. H.E. the Most Honourable Lord Victor Alexander John Hope, K.T., P.C., G.M.S.I., G.M.I.E., G.C.I.E., D.L., T.D., the Marquess of Linlithgow, Viceroy and Governor-General of India.
1939 ..	.. H.E. Sir John Arthur Herbert, G.C.I.E., Governor of Bengal.
1910-1916	.. Lord Hardinge of Penshurst, K.G., P.C., G.C.B., G.C.M.G., G.C.S.I., G.C.I.E., G.C.V.O., I.S.O.
1917-1922	.. The Most Hon. the Marquess of Zetland, P.C., G.C.S.I., G.C.I.E.
1922-1927	.. The Right Hon. the Earl of Lytton, P.C., G.C.S.I., G.C.I.E.
1926-1931	.. The Right Hon. the Viscount Halifax, K.G., P.C., G.C.S.I., G.C.I.E.
1927-1932	.. Colonel Sir Francis Stanley Jackson, P.C., G.C.I.E.
1931-1936	.. The Right Hon. the Earl of Willingdon, G.M.S.I., G.C.M.G., G.M.I.E., G.B.E.
1932-1938	.. The Right Honourable Sir John Anderson, P.C., G.C.B., G.C.I.E.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL DURING THE YEAR 1939.

Elections Annual Meeting.

President.

Sir David Ezra, Kt., F.Z.S., M.B.O.U.

Vice-Presidents.

Lt.-Col. N. Barwell, M.C., M.A., Barrister-at-Law.
Bt.-Col. R. N. Chopra, C.I.E., M.A., M.D., Sc.D., I.M.S., F.N.I., F.R.A.S.B.
The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.
Sir Bijay Chand Mahtab, G.C.I.E., K.C.S.I., I.O.M., Maharajadhiraja
Bahadur of Burdwan.

Secretaries and Treasurer.

General Secretary:—Johan van Manen, Esq., C.I.E., F.R.A.S.B.
Treasurer:—Percy Brown, Esq., A.R.C.A., F.R.A.S.B.
Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit., F.R.A.S.B.
Joint Philological Secretary:—Shamsu'l 'Ulama Mawlawi M. Hidayat
Hosain, Khan Bahadur, Ph.D., F.R.A.S.B.
Natural History Secretaries { Biology:—Baini Prashad, Esq., D.Sc., F.Z.S., F.R.S.E.,
F.N.I., F.R.A.S.B.
Physical Science:—J. N. Mukherjee, Esq., D.Sc.,
F.C.S., F.N.I., F.R.A.S.B.
Anthropological Secretary:—B. S. Guha, Esq., M.A., Ph.D., F.N.I.,
F.R.A.S.B.
Medical Secretary:—Rai Sir Upendra Nath Brahmachari Bahadur, Kt.,
M.A., M.D., Ph.D., F.S.M.F., F.N.I., F.R.A.S.B.
Library Secretary:—M. Mahfuz-ul Haq, Esq., M.A.

Other Members of Council.

Major C. L. Pasricha, M.A., M.B., B.Ch., M.R.C.S., I.M.S.
Kalipada Biswas, Esq., M.A., D.Sc., F.R.S.E.
C. S. Fox, Esq., D.Sc., M.I.Min.E., F.G.S., F.N.I., F.R.A.S.B.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-Law.
Satya Churn Law, Esq., M.A., B.L., Ph.D., F.N.I., F.Z.S., M.B.O.U.
Meghnad Saha, Esq., D.Sc., F.R.S., F.N.I., F.R.A.S.B.

APPOINTMENTS, TRANSFERS, AND OTHER CHANGES DURING THE YEAR.

Dr. B. S. Guha, Acting General Secretary, *vice* Mr. Johan van Manen,
General Secretary on special duty from 25-4-39 to 1-7-39.
Dr. B. S. Guha, General Secretary, *vice* Mr. Johan van Manen, resigned
with effect from 1st July.
Dr. B. S. Guha, Acting Honorary Treasurer, *vice* Mr. Percy Brown,
absent from 1-4-39 to 25-4-39.
Dr. Baini Prashad, Acting Honorary Treasurer, *vice* Mr. Percy Brown,
absent from 25-4-39 to 1-10-39.
Mr. H. C. Chakladar, Anthropological Secretary, *vice* Dr. B. S. Guha,
resigned with effect from 1st July.
Maharajadhiraja of Burdwan, absent from June to first week of October.
Sir John Lort-Williams, absent from August to beginning of December.
Lt.-Col. N. Barwell, absent from August to November.
Dr. J. N. Mukherjee, absent from 10-5-39 to 15-6-39.
Sir U. N. Brahmachari, absent from 15-5-39 to 24-6-39.

OFFICERS AND MEMBERS OF COUNCIL OF THE ROYAL ASIATIC SOCIETY OF BENGAL ELECTED FOR THE YEAR 1940.

President.

The Hon'ble Mr. Justice John Lort-Williams, Kt., K.C.

Vice-Presidents.

Bt.-Col. R. N. Chopra, C.I.E., M.A., Sc.D., M.D., F.R.C.P.,
F.N.I., F.R.A.S.B., I.M.S.
Sir Bijay Chand Mahtab, G.C.I.E., K.C.S.I., I.O.M., Maharaja-
dhiraja Bahadur of Burdwan.
C. S. Fox, Esq., D.Sc., M.I.Min.E., F.G.S., F.N.I., F.R.A.S.B.
Syamaprasad Mookerjee, Esq., M.A., B.L., D.Litt., Barrister-at-
Law.

Secretaries and Treasurer.

General Secretary:—B. S. Guha, Esq., M.A., Ph.D., F.N.I.
F.R.A.S.B.
Treasurer:—Baini Prashad, Esq., D.Sc., F.Z.S., F.R.S.E., F.N.I.,
F.R.A.S.B.
Philological Secretary:—S. K. Chatterji, Esq., M.A., D.Lit.,
F.R.A.S.B.
Joint Philological Secretary:—M. Mahfuz-ul Haq, Esq., M.A.
Natural History Secretaries:—
 Biology:—Kalipada Biswas, Esq., M.A.,
 D.Sc., F.R.S.E.
 Physical Science:—Meghnad Saha, Esq.,
 D.Sc., F.R.S., F.N.I., F.R.A.S.B.
Anthropological Secretary:—H. C. Chakladar, Esq., M.A.
Medical Secretary:—Major C. L. Pasricha, M.A., M.B., B.Ch.,
M.R.C.S., F.N.I., I.M.S.
Library Secretary:—J. N. Mukherjee, Esq., D.Sc., F.C.S., F.N.I.,
F.R.A.S.B.

Other Members of Council.

Percy Brown, Esq., A.R.C.A., F.R.A.S.B.
S. C. Law, Esq., M.A., B.L., Ph.D., F.Z.S., M.B.O.U., F.N.I.
Kalidas Nag, Esq., M.A., D.Litt.
Sir S. Radhakrishnan, Kt., M.A., D.Litt., F.B.A.
M. Z. Siddiqi, Esq., M.A., Ph.D.
W. D. West, Esq., M.A., F.N.I.

ORDINARY MEMBERS.

R=Resident. N=Non-Resident. F=Foreign. A=Absent. L=Life.

An Asterisk is prefixed to names of Ordinary Fellows of the Society.

Date of Election		
5-4-22	R	Abdul Ali , ABUL FAIZ MUHAMMAD, M.A., M.R.A.S., F.R.S.L., F.R.G.S., F.R.H.S. 3, Nawab Abdur Rahman Street, Calcutta.
7-3-27	N	Abdul Kadir , A. F. M., M.A. (ALLAHABAD), MAULVIE FAZIL (PUNJAB), MADRASSAH FINAL (CALCUTTA), <i>Professor, Rajshahi College. Rajshahi.</i>
2-11-25	N	Acharya , PARAMANANDA, B.SC., <i>State Archæologist, Mayurbhanj State, Baripada.</i>
2-3-21	R	Agharkar , SHANKAR PURUSHOTTAM, M.A., PH.D., F.L.S., F.N.I., <i>Sir Rash Behari Ghose Professor of Botany, Calcutta University. 35, Ballygunge Circular Road, Calcutta.</i>
3-2-36	N	Ahmad , ALFAZUDDIN, KHAN BAHADUR, <i>Late Offg. Assistant Director of Public Instruction for Muhammedan Education, Bengal. Dhalhora, Tamluk, Midnapur.</i>
1-1-34	N	Ahmad , MIAN JAMAL-UD-DIN, B.A., B.T., <i>Member, Bureau of Education, Afghanistan. 2, Andrabi, Kabul, Afghanistan.</i>
6-6-17	N	Aiyangar , K. V. RANGASWAMI, RAO BAHADUR, M.A., <i>Late Director of Public Instruction, Travancore. Vasumali Vilas, Rangaswami Road, Mylapore, Madras.</i>
6-12-26	N	*Aiyangar , S. KRISHNASWAMI, M.A., PH.D., M.R.A.S., F.R.HIST.S., F.P.A.S.B., <i>Rajasevasakta, Professor, University of Madras. 'Sripadam', 143, Brodies Road, Mylapore, Madras, S.</i>
1-12-20	N	Akbar Khan , THE HON'BLE MAJOR NAWAB SIR MOHAMMED, K.B.E., C.I.E., <i>Khan of Hoti. Hoti, N.-W.F.P.</i>
5-6-39	R	Ali , S. SHAMSER, <i>Insurance Underwriter. 3, Bright Street, Ballygunge, Calcutta.</i>
4-4-38	R	Anderson , J. 15, Park Street, Calcutta.
3-7-12	F	Andrews , EGBERT ARTHUR, B.A. c/o The Royal Empire Society, Northumberland Avenue, London, W.C.
5-4-37	R	Asari , J. R., <i>Retd. Asstt. Controller of Printing, Stationery and Stamps. Suite 10, 23, Central Avenue, Calcutta.</i>
3-3-30	L	Ashton , HUBERT SHORROCK, <i>Merchant. Trueloves, Ingatestone, Essex, England.</i>
3-9-34	R	Auden , JOHN BICKNELL, M.A. (CANTAB.), F.G.S., F.N.I., <i>Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.</i>
3-11-30	R	Austin , GEORGE JOHN, <i>Sanitary Engineer, Messrs. J. B. Norton & Sons, Ltd. Norton Building, Lalbazar, Calcutta.</i>
4-4-17	N	Awati , P. R., B.A. (CANTAB.), D.I.C., F.N.I., I.E.S., <i>Professor of Zoology, Royal Institute of Science. Mayo Road, Fort, Bombay.</i>
1-5-39	R	Ayrton , SHAVUX MUNCHERSHAW, <i>Assistant, Messrs. Shaw Wallace & Co., Madon Mansions, 275-C, Bow Bazar Street, Calcutta.</i>

Date of Election		
3-3-14	L	* Bacot, J. , F.R.A.S.B. Boulevard Saint-Antoine, 61, Versailles Seine-et-Oise, France.
7-9-36	R	Bagchi, K. N. , RAI BAHADUR, B.SC., M.B. (CAL.), F.I.C. (LOND.), D.T.M. (CAL. & L'POOL), <i>Chemical Examiner to the Government of Bengal.</i> Medical College, Calcutta.
1-11-26	R	Bagchi, PROBODH CHANDRA , M.A., DR.-ES-LETTERS (PARIS), <i>Member of the A.S. of Paris; Lecturer, Calcutta University.</i> 9, Rustomjee Street, Ballygunge, Calcutta.
1-3-26	R	Bagnall, JOHN FREDERICK , B.SC., A.M.I.MECH.E., A.M.I.E.E., A.M.INST.C.E., <i>Consulting Engineer, Messrs. Macneill & Co.</i> 2, Fairlie Place, Calcutta.
2-4-24	N	* Bahl, K. N. , D.SC., D.PHIL., F.N.I., F.R.A.S.B., <i>Professor of Zoology, Lucknow University.</i> Badshabagh, Lucknow.
7-3-27	N	Bake, A. A. , <i>Doctorandus Or. Lit.</i> c/o Netherland Indies Commercial Bank, 1, Royal Exchange Place East, Calcutta.
1-8-38	R	Banerjee, J. N. , M.A., <i>Lecturer, Calcutta University.</i> 28, Manoharpukur Road, Calcutta.
6-2-18	N	Banerjee, NARENDRA NATH , M.I.P.O.E.E., A.M.I.E., <i>Post-Master General, B. & O.</i> Patna.
5-3-24	R	Banerjee, P. N. , M.A. (CANTAB.), A.M.I.E., F.C.U., <i>Civil Engineer.</i> 12, Mission Row, Calcutta.
7-12-36	R	Banerjee, S. , I.C.S. <i>Collector's House, Hooghly.</i>
3-8-31	N	Barua, KANAK LAL , RAI BAHADUR, B.L., F.R.S.E., <i>President, Kamurupa Anusundhan Samiti, Late Minister to the Government of Assam.</i> Rosaville, Nangthymai, Shillong, Assam.
3-12-23	R	Barwell, N. F. , M.C., M.A., I.T.-COL. (RETD.), <i>Barrister-at-Law.</i> 6, Middleton Street, Calcutta (and) Aylmerton House, Aylmerton, Norfolk, England.
7-12-36	R	Basu, INDUBHUSAN , M.D. (CAL.), <i>Medical Practitioner, Associate Professor of Medicine and Visiting Physician, Carmichael Medical College.</i> 19, Vivekananda Road, Calcutta.
6-2-39	R	Basu, JNANENDRA NATH , VIDYALANKAR, <i>Member, Benares Hindu University Court, Fellow, Theosophical Society, Landholder, Director, Messrs. Thacker Spink & Co.</i> 9, Park Lane, Calcutta.
3-12-24	R	Basu, JATINDRA NATH , M.A., M.L.C., <i>Solicitor.</i> 14, Baloram Ghose Street, Calcutta.
1-3-26	R	Basu, NARENDRA KUMAR , M.L.C., <i>Advocate, High Court.</i> 12, Ashu Biswas Road, Bhawampore, Calcutta
2-1-28	R	Basu, NARENDRA MOHAN , M.SC., <i>Professor of Physiology.</i> 63, Hindusthan Park, Ballygunge, Calcutta.
2-10-39	N	Basu Mazoomder, WOOSHACUR , B.L., M.R.A.S., F.R.S.A. (LOND.), <i>Bengal Civil Service (Judicial), Munsif.</i> Barisal, Dist. Bakharanj (Bengal).
7-7-09	N	Bazaz, RANGNATH KHEMRAJ , <i>Proprietor, Shri Venkateshwar Press.</i> 7th Khetwadi, Bombay No. 4.
7-5-34	R	Bent, WILLIAM ANTONY , <i>Assistant, Messrs. George Henderson & Co., Ltd.</i> 101/1, Clive Street, Calcutta.
4-3-25	R	Benthall, SIR EDWARD C. , KT., <i>Merchant.</i> 37, Ballygunge Park, Calcutta.
7-4-09	L	* Bentley, CHARLES A. , C.I.E., M.B., D.P.H., D.T.M. & H., F.A.S.B., <i>Professor of Hygiene.</i> University of Egypt, Cairo.

Date of Election.		
6-1-36	N	Berkeley-Hill , OWEN, A.R., M.A., M.D., B.OH. (OXON), M.R.C.S. (ENGLAND), D.T.M. (LOND.), LT.-COL., I.M.S. (RETD.). Station View, Ranchi.
4-6-28	N	Bhadra , SATYENDRA NATH, RAI BAHADUR, M.A., Principal, Jagannath Intermediate College. Nayabazar, Dacca.
1-8-17	R	*Bhandarkar , DEVADATTA RAMKRISHNA. M.A., PH.D., F.R.A.S.B. 2/1, Lovelock Street, Ballygunge, Calcutta.
5-4-26	N	Bhatia , M. L., M.SC., Lecturer in Zoology, Lucknow University. Lucknow.
7-7-24	I.	Bhattacharyya , BINOYTOSH, M.A., PH.D., Rajaratna. General Editor. Gaeckwad's Oriental Series, and Librarian, Oriental Collections, Baroda State. Baroda.
6-9-37	N	Bhattacharya , N. C., Vice-Chairman, Birnagar Municipality. Birnagar, Nadia.
4-6-28	N	Bhattacharya , NALINI KANTA, M.A., PH.D., Curator. Dacca Museum. Ramna, Dacca.
6-4-31	R	Bhose , JOTISH CHANDER, M.A., B.L., Advocate, Calcutta High Court. 24A, Ray Bagan Street, Calcutta.
5-2-34	A	Bhuyan , SURYYA KUMAR, RAI BAHADUR, M.A., B.L., A.E.S., Honorary Provincial Director of Historical and Antiquarian Studies, Assam, Professor, Cotton College, Gauhati, Assam.
5-3-28	R	Bliswas , THE HON'BLE MR. JUSTICE CHARU CHANDRA, C.I.E., M.A., B.L., Judge, High Court. 58, Puddopukur Road, P.O. Elgin Road, Calcutta.
1-8-23	L	Bliswas , KALIPADA, M.A., D.SC. (EDIN.), F.R.S.E., Superintendent, Royal Botanic Garden. Botanic Garden P.O., Calcutta.
3-1-27	N	Bivar , HUGH GODFREY STUART, I.C.S., District and Sessions Judge. Faridpur.
4-11-35	N	Bor , N. L., M.A., D.SC., I.F.S., Forest Botanist, Forest Research Institute. New Forest, Dehra Dun.
6-7-25	R	Bose , MANMATHA MOHAN, M.A., Professor Emeritus, Scottish Church College. 19, Gokul Mitra Lane, Hatkhola, Calcutta.
7-12-36	N	Bose , AMBUJ NATH, M.B.E., M.D. (LAUSANNE), F.R.C.P. (EDIN. & LOND.), LT.-COL., I.M.S. Medical College, Patna.
7-8-39	R	Bose , GIRINDRASHEKHAR, M.B., D.SC., F.N.I., Professor of Psychology and Head of Department of Psychology, Calcutta University. 14, Parsi Bagan Lane, P.O. Amherst Street, Calcutta.
2-3-31	N	Bose , SUDHANSU KUMAR, B.SC. (CAL.), A.R.S.M., B.SC. (MINING) (LONDON), Professor of Mining and Surveying, Indian School of Mines, Dhanbad.
2-1-39	R	Bose , SUDHANSU MOHAN, M.A., LL.B. (CANTAB.), Barrister-at-Law, Member, Public Service Commission, Bengal. 3, Federation Road, P.O. Amherst Street, Calcutta.
2-11-36	R	Bothra , SUBHKARAN SINGH, Landholder and Student. 29, Vivekananda Road, Calcutta.
4-5-31	R	Bottomley , JOHN MELLOR, B.A. (OXON), I.E.S., Director of Public Instruction, Bengal. 1, Sunny Park, Ballygunge, Calcutta.
5-12-32	N	Boyle , CECIL ALEXANDER, MAJOR, D.S.O., Adviser in Languages and Secretary to the Board of Examiners, Army Headquarters, Simla.
3-12-34	R	Brahmachari , PHANINDRA NATH, M.SC., M.B. 19, Loudon Street, Calcutta.

Date of Election.		
1-1-08	L	*Brahmachari, SIR UPENDRA NATH, KT., RAI BAHADUR, M.A., PH.D., M.D., F.S.M.F., F.N.I., F.R.A.S.B. 19, Loudon Street, Calcutta.
7-11-27	N	Brahmachary, SARAT CHANDRA, RAI BAHADUR, M.A., B.T. Kasba Road, Ballygunge, P.O. Dhakuria, 24-Perge.
6-1-36	R	Brocke, A. G., D.SC. (DOCTOR PHILOSOPHÆ NATURALIS) (JENA), Branch Manager, Pharmaceutical Department, 'Bayer'. 52/4/1, Ballygunge Circular Road, Calcutta.
3-7-07	L	*Brown, JOHN COGGIN, O.B.E., D.SC., F.G.S., M.I.M.E., M.INST.M.M., M.I.E., F.R.A.S.B. c/o Messrs. Grindlay & Co., 54, Parliament Street, Westminster, London, S.W.1.
6-10-09	R	*Brown, PERCY, A.R.C.A., F.R.A.S.B., Curator, Victoria Memorial. Calcutta.
8-1-96	F	*Burn, SIR RICHARD, KT., C.S.I., F.R.A.S.B. 9, Staverton Road, Oxford, England.
3-12-34	F	Burt, SIR BRYCE CHUDLEIGH, KT., C.I.E., M.B.E., B.SC., I.A.S., F.N.I. c/o The Westminster Bank, Bishopston, Bristol, England.
2-4-13	A	Calder, CHARLES CUMMING, B.SC., F.N.I., F.L.S., Superintendent, Royal Botanic Garden. Sibpur, Howrah.
4-12-39	R	Cameron, REV. ALLAN, M.A., PH.D., Principal, Scottish Church College. 3 and 4, Cornwallis Street, Calcutta.
4-11-29	F	Campbell, SIR GEORGE R., KT., Westeroft, Pyrford, Surrey, England.
4-7-38	R	Carstairs, ANDREW McLAREN, M.A., Bengal Chamber of Commerce. Royal Exchange Buildings, 2, Clive Street, Calcutta.
3-2-36	F	Catto, OF CAIRNCATTO, THE RIGHT HON'BLE LORD, BART. 'Woodlands', Clamp Hill, Stanmore, Middlesex, England.
1-9-20	R	Chakladar, HARAN CHANDRA, M.A. 28/4, Srimohan Lane, Kalighat, Calcutta.
7-3-32	R	Chakraborty, KHIRODE BEHARI, Engineer and Manufacturer. 7, Hindusthan Park, P.O. Ballygunge, Calcutta.
4-7-27	R	Chakravarti, CHINTAHARAN, M.A., KĀVYATĪRTHA, Lecturer, Bethune College. 28/3, Sahanagar Road, Kalighat, Calcutta.
3-2-30	N	Chakravarti, M. N., M.SC., A.T.S. 'Gitanjali'. 37, Mayo Road, Lahore.
3-1-27	N	Chakravarti, NIRANJANPRASAD, M.A., PH.D. (CANTAB.), Government Epigraphist. Office of the Government Epigraphist, Ootacamund, Nilgiris, S. India.
7-2-38	R	Chakravarti, P. K., M.A., B.L., Advocate, High Court. 105, Harish Mukherjee Road, Calcutta.
6-2-39	N	Chakravarti, PROF. RASH MOHAN, PH.B., PURANRATNA, VIDYAVINODE, Superintendent, Rammala Chhatravas. Comilla, Bengal.
5-6-33	N	Chakravarti, SUSIL KUMAR, M.A., Zemindar. Cooch Behar (Cooch Behar State).
6-1-30	A	Chakraverti, SHRISH CHANDRA, B.L., Attorney-at-Law, High Court, Calcutta. 2, Marquis Street, Calcutta.
1-9-20	R	*Chanda, RAMAPRASAD, RAI BAHADUR, B.A., F.R.A.S.B. 37/1, Manoharpukur Road, Kalighat, Calcutta.
3-1-06	L	Chapman, JOHN ALEXANDER. 32, Lavington Road, West Ealing, London, W.3.

Date of Election		
7-5-28	R	Chatterjea , SIR NALINI RANJAN, KT., M.A., B.L., <i>Retired Judge and sometime acting Chief Justice, Calcutta.</i> 91A, Harish Mukherjee Road, Bhawanipore, Calcutta.
7-2-27	N	Chatterjee , ASHOKE, B.A. (CAL.), B.A. (CANTAB.), <i>Labour Welfare Office.</i> Burnpur, Via Asansol.
27-10-15	F	Chatterjee , SIR ATUL CHANDRA, K.C.I.E., K.C.S.I., <i>Late High Commissioner for India.</i> Withdean, Cavendish Road, Weybridge, Surrey, England.
2-3-36	R	Chatterjee , MANOMOHAN, B.SC. (CAL.), PH.D. (LOND.), A.R.C.S., D.I.C., <i>Professor of Geology, Presidency College.</i> 170/2, Lower Circular Road, Calcutta.
1-10-20	R	Chatterjee , NIRMAL CHANDRA, <i>Barrister-at-Law.</i> 47/1, Theatre Road, Calcutta.
4-7-27	R	Chatterjee , PATITPABON, M.A., B.L., <i>Vakil, High Court.</i> 84, Harrison Road, Calcutta.
3-12-34	N	Chatterjee , SISIR CHANDRA, M.D. (EDIN.), M.R.O.P. (EDIN.), D.P.H. (EDIN.), <i>Chief Medical & Health Officer.</i> Headquarters Offices, N.W. Ry., Lahore.
4-6-34	N	Chatterji , BIJAN RAJ, PH.D. (LONDON), D.LITT. (PUNJAB), <i>Professor of History, Meerut College.</i> Meerut.
5-1-31	R	Chatterji , DURGACHARAN, M.A., <i>Lecturer in Sanskrit, Bethune College.</i> 39, Jatin Das Road, Kalighat, Calcutta.
7-6-11	R	Chatterji , KARUNA KUMAR, LT.-COL., I.T.F., M.C., V.H.A.S. 6/1, Wood Street, Calcutta.
7-5-28	R	Chatterji , KEDAR NATH, B.SC. (LONDON), A.E.C.S. (LONDON). 43, Wellesley Street, Calcutta.
6-8-24	R	*Chatterji , SUNITI KUMAR, M.A. (CAL.), D.LITT. (LONDON), F.R.A.S.B. <i>Khaira Professor of Linguistics, Calcutta University.</i> 'Sudharma'. 16, Hindusthan Park, (off Rashbihari Avenue East End), Ballygunge, Calcutta.
2-3-36	R	Chatterji , MRS. TUHINIKA, M.A., KAVYATIRTHA, <i>Research Scholar, Examiner, Calcutta University.</i> 5, Wood Street, Calcutta.
5-11-24	R	Chattopadhyay , K. P., M.SC., <i>Professor, Calcutta University.</i> 2, Palm Place, Ballygunge, Calcutta.
2-11-25	N	Chattopadhyaya , KSHETRESA CHANDRA, M.A., <i>Lecturer in Sanskrit.</i> Allahabad University, Allahabad.
4-4-38	R	Chaudhuri , MRS. ROMA, M.A., D.PHIL. (OXON). 3, Federation Road, Calcutta.
4-11-35	R	Chaudhuri , S N. 52, Ballygunge Circular Road, Calcutta.
5-12-23	R	Chopra , B. N., D.SC., F.N.I., F.L.S., <i>Assistant Superintendent, Zoological Survey of India.</i> Indian Museum, Calcutta.
1-2-22	R	*Chopra , R. N., C.I.E., M.A., SC.D., M.D. (CANTAB.), F.R.C.P., F.N.I., F.R.A.S.B., BREVET-COL., I.M.S., <i>Professor of Pharmacology.</i> School of Tropical Medicine and Hygiene, Chittaranjan Avenue, Calcutta.
5-12-27	L	Chowdhury , SIR CHHAJURAM, KT., C.I.E., M.L.C. 21, Belvedere Road Calcutta.
2-4-28	R	Chowdhury , RAI JATINDRANATH, <i>Zemindar.</i> 36, Russa Road, Tollygunge Calcutta.
3-7-07	L	*Christie , WILLIAM ALEXANDER, KYNOCH, B.SC., PH.D., M.INST.M.M., F.R.A.S.B. <i>Secretariat, Principal Supply Officers' Committee (India), Defence Department, Simla.</i>
2-2-31	R	Clough , JOHN, <i>Barrister-at-Law.</i> 17, Store Road, Ballygunge, Calcutta.

Date of Election.		
5-5-30	F	Cooper, G. A. P. 29, Eccleston Street, Eaton Square, London, S.W. 1.
6-11-33	R	Coulson, ARTHUR LENNOX, D.SC. (MELB.), D.I.C., F.N.I., F.G.S. Geological Survey of India, 27, Chowringhee, Calcutta.
4-11-29	L	*Cotter, GERALD DE PURCELL, B.A., SC.D. (DUBLIN), M.INST.M.M., F.G.S., F.R.A.S.B. 'Fallowfield', Manor Road, Penn., Bucks., England.
2-11-25	R	Crookshank, HENRY, B.A., B.A.I. (DUBLIN), F.N.I., Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
6-3-39	N	Culshaw, REV. WESLEY JAMES, Methodist Minister. P.O. Serenga, Dist. Bankura.
7-3-32	R	Darbari, M. D., Incorporated Accountant, S. B. Billimoria & Co., Ltd. 100, Clive Street, Calcutta.
4-3-25	R	Das, AJIT NATH, RAI BAHADUR, M.R.A.S., F.Z.S., Zemindar. 24, South Road, Entally, Calcutta.
5-12-39	N	Das-Gupta, C. C., M.A., Archæological Survey of India. Western Circle, Poona.
1-3-26	R	Datta, HIRENDRA NATH, M.A., B.L., Solicitor, High Court. 139, Cornwallis Street, Calcutta.
6-8-24	L	Davies, L. M., LT.-COL., M.A., F.R.S.E., F.R.A.I., F.G.S. 8, Garscube Terrace, Murrayfield, Edinburgh, 12, Scotland.
4-3-29	R	De, J. C., M.B., LT.-COL., I.M.S. 11, Rowland Road, Calcutta.
19-9-95	L	De, KIRAN CHANDRA, C.I.E., B.A., I.C.S. (RETD.), Manager, Nawab Bahadur of Murshidabad Estate. Lalbagh, Murshidabad.
4-3-25	R	Deb, KSHITINDRA, RAI MAHASAI. 21/E, Rani Sankari Lane, Kalighat, Calcutta.
5-12-27	L	Dechhen, H.H. MAHARANI KUNZANG, Maharani of Sikkim. Gangtok, Sikkim.
5-5-30	N	Deo, SIE PRATAP CHANDRA BHANJ, K.C.I.E., Maharajah, Ruler of Mayurbhanj State. P.O. Baripada, Mayurbhanj, B.N.R.
5-11-34	R	Dey, MUKUL, A.R.C.A. (LOND.), M.C.S.E. (U.S.A.), F.R.S.A., etc., Principul, Govt. School of Art; Officer in charge, Art Section Keeper of Govt. Art Gallery; Trustee, Indian Museum. 28, Chowringhee, Calcutta.
4-5-10	L	Dhavlé, THE HON'BLE MR. JUSTICE SHANKAR BALAJI, B.A., I.C.S., Judge, Patna High Court. Patna.
4-8-20	N	*Dikshit, KASHINATH NARAYAN, M.A., F.R.A.S.B. c/o The Office of the Director-General of Archæology, New Delhi.
5-1-98	R	Dods, WILLIAM KANE, Agent Hongkong and Shanghai Banking Corporation. 6, Minto Park, Alipur, Calcutta.
2-2-31	A	Douglas, GORDON WATSON, B.SC., D.L.M., State Chemist to the Government of Bhopal. State Laboratory, Bhopal, Central India.
2-7-02	L	Doxey, FREDERICK. 'Ballygunge', Cooden Drive, Bexhill-on-Sea, Sussex, England.
7-11-32	R	Driver, DARAB CURSETJI, M.A. (CANTAB.), Barrister-at-Law, Constituted Attorney to Messrs. Tata & Sons, Ltd., Managing Agents for The Tata Iron & Steel Co., Ltd. 87/C, Park Street, Calcutta.
6-6-38	N	Dudhoria, NABA KUMAR SING, Zemindar and Banker. Azimganj. Dt. Murshidabad.

Date of Election		
1-7-29	R	Dunn , JOHN ALEXANDER, D.S.C., D.I.C., F.N.I., F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
6-9-37	A	Durniz-Podewils , COUNT, <i>Consul-General for Germany.</i> 34, Park Street, Calcutta.
2-1-33	R	Dutch , ROBERT AUSTEN, B.A. (CANTAB.), I.C.S., <i>District Judge.</i> Alipore, Calcutta.
3-7-33	R	Dutt , GURU SADAY, <i>Barrister-at-Law</i> , I.C.S. 12, Loudon Street, Calcutta.
30-9-35	R	Dutt , MOHENDRA NATH, L.E., <i>Consulting Engineer.</i> 12, Kailas Bose Lane, Howrah.
5-12-32	R	Dutt , NALINAKSHA, M.A., PH.D., D.LITT. (LOND.), <i>Lecturer, Calcutta University.</i> 91-1B, Manicktollah Street, Calcutta.
5-3-28	A	Eberl , OTTO, DR. JUR., <i>Late Vice-Consul for Germany.</i> 2, Store Road, Ballygunge, Calcutta.
1-11-38	N	Eekhout , JHR. P.J., <i>Vice-Consul for Netherlands.</i> Clarke's Hotel, Simla.
5-1-31	L	Evans , PERCY, B.A. (CANTAB.), F.G.S., <i>Geologist.</i> c/o The Burma Oil Co., Digboi, Assam.
6-2-28	L	Ezra , SIR DAVID, KT., F.Z.S., M.B.O.U. 3, Kyd Street, Calcutta.
2-5-38	R	Farouqi , NAWAB SIR K. G. M., KT., <i>of Ratanpur.</i> 20/1, Store Road, Calcutta.
2-12-29	N	Fawcus , LOUIS REGINALD, C.I.E., B.A. (CANTAB.), <i>Indian Civil Service, Magistrate and Collector.</i> Dacca.
3-8-04	L	*Fermor , SIR LEWIS LEIGH, KT., O.B.E., M.INST.M.M., D.S.C., A.R.S.M., F.G.S., F.R.S., F.N.I., F.R.A.S.B., <i>Late Director, Geological Survey of India.</i> c/o Messrs. Lloyds Bank, Ltd., 6, Pall Mall, London.
31-10-06	F	Finlow , ROBERT STEEL, C.I.E., B.S., F.I.C., <i>Late Director of Agriculture, Bengal.</i> c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London, S.W. 1.
3-2-36	R	Flury , E. C., <i>Manager, Messrs. Volkart Bros.</i> Post Box No. 606, Calcutta.
5-11-13	R	*Fox , CYRIL S., D.S.C. (BIRM.), M.I.M.E., F.G.S., F.N.I., F.R.A.S.B. <i>Geological Survey of India.</i> 27, Chowringhee, Calcutta.
5-11-28	R	Galstaun , JOHN CARAPIET, O.B.E., <i>Merchant and Landholder.</i> 234/4, Lower Circular Road, Calcutta.
1-11-26	R	Galstaun , SHANAZAN, G., M.A., D.M.R.E., M.R.C.S., L.R.C.P., <i>Medical Practitioner, Radiologist, Medical College Hospital.</i> 34, Chowringhee Road, Calcutta.
6-10-09	R	*Gangoly , ORDHENDRA COOMAR, B.A., F.R.A.S.B. 2, Asutosh Mukherjee Road, Calcutta.
7-9-36	R	Gangooly , PHANINDRA LAL, M.A., <i>Lecturer in Mathematics, Calcutta University.</i> P. 507, Rash Behari Avenue, Calcutta.
5-11-34	R	Gee , EDWARD ROWLAND, M.A. (CANTAB.), F.N.I., F.G.S., <i>Assistant Superintendent, Geological Survey of India.</i> 27, Chowringhee, Calcutta.
2-1-33	N	George , JAMES, B.A. (CANTAB.), I.C.S., <i>Joint Magistrate and Dy. Collector.</i> Dacca.
6-2-33	L	Ghatak , JYOTISH CHANDRA, M.A. (TRIPLE), SAHITYA SARASWATI, JYOTISH-SAGARA, <i>Professor.</i> 4, Boloram Bose Ghat Road, Bhawanipore, Calcutta.

Date of Election.		
7-5-28	R	Ghosal , UPENDRA NATH, M.A., PH.D., <i>Professor of History, Presidency College.</i> 21, Badur Bagan Row, Calcutta.
5-4-26	R	Ghose , BIMAL CHANDRA, <i>Barrister-at-Law.</i> 27/1, Harish Mukherjee Road, Calcutta.
1-4-29	R	Ghose , DEB PROSONNO, <i>Zemindar.</i> 75, Beadon Street, Calcutta.
7-1-29	R	Ghose , THE HON'BLE MR. JUSTICE MOHIM CHANDRA, B.A. (CAL.), M.A. (CANTAB.), I.C.S., <i>Barrister-at-Law (Inner Temple), Judge, High Court.</i> 4A, Little Russell Street, Calcutta.
3-12-24	R	Ghose , SUSHIL CHANDRA, B.A., <i>Deputy Magistrate.</i> 1, Sikdarbagan Street, Calcutta.
7-9-36	R	Ghosh , J., M.A. (CAL.), PH.D. (EDIN.), F.N.I., <i>Professor of Mathematics. Presidency College.</i> 1A, Rupchand Mukherji Lane, Calcutta.
4-9-39	N	Ghosh , J. C., D.SC., F.N.I., <i>Director, The Indian Institute of Science.</i> Bangalore.
2-4-24	R	Ghosh , K., D.T.M., D.P.H. (CANTAB.), L.M.S., <i>Medical Practitioner.</i> 45, Creek Row, Calcutta.
7-3-27	R	Ghosh , PHANINDRA NATH, M.A., PH.D., SC.D. (PADUA), F.INST.P., <i>Sir Rashbehary Ghosh Professor of Applied Physics, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
4-9-12	R	Ghosh , TARAPADA, <i>Zemindar.</i> 14, Paddapukur Street, Kidderpore, Calcutta.
1-2-26	R	Ghuznavi , SIR ABDUL HALIM, KT., M.L.A., <i>Zemindar.</i> 18, Canal Street, Entally, Calcutta.
6-8-28	R	Ghuznavi , ISKANDER S. K., <i>Zemindar.</i> 45, Jhowtolla Road, Calcutta (and) Dilduar, Mymensingh.
7-12-36	R	Gillespie , ANDREW DOLLAR, <i>Chemist and Senior Partner, Messrs. Bathgate & Co.</i> 17, Old Court House Street, Calcutta.
5-3-28	R	Gooptu , DWIJENDRA NATH, <i>Medical Practitioner and Landholder.</i> 5, Middleton Street, Calcutta.
7-9-10	N	*Gravely , FREDERIC HENRY, D.SC., F.N.I., F.R.A.S.B. <i>Museum House, Egmore, Madras.</i>
5-12-00	L	Grieve , JAMES WYNDHAM ALLEYNE. c/o Messrs. Coutts & Co., 440, Strand, London, W.C. 2.
4-3-35	R	Groth , EDWARD, M., <i>American Consul. American Consulate General,</i> 9, Esplanade Mansions, Esplanade, Calcutta.
4-2-25	R	*Guha , B. S., M.A., PH.D. (HARVARD), F.N.I., F.R.A.S.B. <i>Indian Museum, Calcutta.</i>
5-3-19	N	Gupta , SIVAPRASAD. <i>Seva Upavana, Benares City.</i>
5-8-15	R	Gurner , CYRIL WALTER, B.A. (OXON), I.C.S., <i>Chairman, Improvement Trust.</i> 4, Theatre Road, Calcutta.
5-2-34	R	Haldar , BHARATI VIKAS, M.A., B.L., <i>Advocate, High Court.</i> 47, Haldarpara Road, Kalighat, Calcutta.
6-1-30	A	Haldar , SUDHINDRA KUMAR, M.A., I.C.S., <i>Commissioner of Excise and Salt, Bengal.</i> 241, Lower Circular Road, Calcutta.
6-9-37	N	Hallm , ABDUL, DR., M.A., <i>Lecturer in History, Muslim University.</i> Aligarh.
2-4-24	R	Haq , M. MAHFUZ-UL, M.A., <i>Professor, Presidency College.</i> 8/B, Dargah Road, Park Circus, Calcutta.
1-5-12	A	Harley , ALEXANDER HAMILTON, M.A., I.E.S., <i>Late Principal, Islamia College.</i> 19, Wellesley Square, Calcutta.

Date of Election.		
1-2-26	F	Harris, H. G. Gunnespory Avenue, Ealing, London.
2-4-28	R	Harris, LAWRENCE ERNEST , <i>Engineer, Manager for India, Messrs. Sulzer Brothers.</i> 4, Lyons Range, Calcutta.
2-10-39	N	Hasan, KHAN BAHADUR MAULVI ZAFAR , <i>Superintendent, Archaeological Survey.</i> Northern Circle, Agra.
5-11-19	N	Hemraj, MANYABARA RAJ GURU , C.I.E., PANDITJI. Dhokatore, Nepal.
6-8-28	N	*Heron, A. M. , D.SC. (EDIN.), F.G.S., F.R.G.S., F.N.I., F.R.S.E., <i>Late Director, Geological Survey of India.</i> Mines and Geology Office, Hyderabad, Deccan.
7-6-11	L	*Hidāyat Hosain, MUHAMMAD, SHAMS 'UL-'ULAMA, KHAN BAHADUR , PH.D., F.R.A.S.B. 172/26, Lower Circular Road, Calcutta.
4-11-35	R	Hirtzel, MICHAEL ARTHUR FREDERICK , B.A. (TRINITY COLLEGE, OXFORD), <i>Mercantile Assistant, Macneill & Co.</i> 2, Fairlie Place, Calcutta.
1-4-25	R	Hobbs, HENRY, MAJOR, V.D. , <i>Merchant.</i> 9, Old Court House Street, Calcutta.
7-3-27	A	Hopkinson, ARTHUR JOHN , I.C.S., <i>Secretary to the Government, N.-W.F. Province.</i> Peshawar, N.-W.F.P.
2-11-21	L	*Hora, SUNDER LAL, RAI BAHADUR , D.SC., F.Z.S., F.R.S.E., F.N.I., F.R.A.S.B. <i>Zoological Survey of India, Indian Museum, Calcutta.</i>
6-6-23	L	*Howard, SIR ALBERT, KT. , C.I.E., M.A., F.R.A.S.B., <i>Late Director, Institute of Plant Industry, Indore, and Late Agricultural Adviser to States in Central India.</i> 14, Liskeard Gardens, Blackheath, London, S.E. 3.
7-3-32	N	Hughes, ARTHUR, B.A. (MANCHESTER) , <i>Indian Civil Service, District Magistrate.</i> Faridpure.
6-8-34	N	Husain, SYED ATA, M.A. (CAL.) , C.E. (ROORKEE), <i>Retired Superintending Engineer, Hyderabad State.</i> Mohalla Lingumpally, Hyderabad, Deccan.
6-6-23	A	*Hutton, J. H. , C.I.E., I.C.S., M.A., D.SC., F.R.A.S.B. <i>University Museum of Archaeology and Ethnology.</i> Downing Street, Cambridge, England.
1-2-11	L	Insch, JAMES. 18, Beechwood Avenue, Boscombe, Hants, England.
2-5-38	R	Jacob, J. R. , <i>Director, Messrs. B. N. Elias & Co., Merchant and Landholder.</i> Norton Buildings, Old Court House Corner, Calcutta.
6-6-27	L	Jain, BALDEODAS , <i>Merchant and Banker.</i> 21, Armenian Street, Calcutta.
2-2-21	R	Jain, CHHOTÉ LAL , M.R.A.S. 174, Central Avenue, Calcutta.
6-1-30	N	Jain, NIRMAL KUMAR. Devashrama, Arrah.
6-8-28	N	Jaitly, P. L. , <i>Electrical Engineer, Merchant.</i> 15, Canning Road, Allahabad.
1-11-26	N	Jameson, THOMAS BRIANFORD, MAJOR, M.C., M.A. (CANTAB.) , I.C.S., <i>District and Sessions Judge.</i> Dinajpur.
1-11-38	R	Jatia, KANAI LALL. 21, Roopchand Roy Street, Calcutta.
4-2-29	R	Jenkins, WALTER ALLEN , D.SC. (SHEFFIELD), L.E.S. <i>United Service Club, Calcutta.</i>
1-11-11	L	Kamaluddin, AHMAD, SHAMS 'UL-'ULAMA , M.A., I.E.S., 3, Nawab Abdur Rahman Street, Calcutta.

Date of Election.		
4-5-10	L	*Kemp, STANLEY W. , B.A., D.SC., F.R.S., F.A.S.B. <i>Marine Biological Association of U.K.</i> The Laboratory, Citadel Hill, Plymouth, England.
2-5-30	A	Kenny, DIK EDWARD COURTENAY , LT.-COL., I.A., <i>Deputy Commissioner, Tavoy.</i> Burma.
3-12-24	R	Khan, REZAUR RAHMAN , M.A., B.L., <i>Deputy President, Bengal Legislative Council.</i> 46, Old Ballygunge 1st Lane, Calcutta.
2-8-26	R	Khettry, BENIMADHO , <i>Proprietor, Messrs. Gouri Shanker Khettry, Landholders, Bankers and Merchants.</i> 15, Paggiyapatti, Barabazar, Calcutta.
2-11-25	F	Kimura, R. (KO-SHI) , <i>Principal, College Department of Risho University.</i> Osaki Machi, Tokyo, Japan.
5-2-34	N	Kirby, WALTER , B.SC., <i>Inspector of Mines in India.</i> Dhanbad, E.I.R.
4-11-35	R	Klebe, ANINA , née BRANDT, PH.D. (GREIFSWALD, GERMANY), <i>Psychologist.</i> 26, Royal Court, 5/1, Russell Street, Calcutta.
1-3-26	R	Kramrisch, STELLA (MRS.) , PH.D., <i>Lecturer in Ancient Indian History (Fine Arts), Calcutta University.</i> 7, Raja Santosh Road, Alipur, Calcutta.
7-3-23	A	Labey, GEORGE THOMAS , M.C., <i>Bengal Pilot Service.</i> United Service Club, Calcutta.
4-2-35	R	Lal, RAM BIHARI , M.B.B.S., D.P.H., D.T.M. & H., D.B., F.N.I., <i>Professor of Vital Statistics and Epidemiology, All-India Institute of Hygiene and Public Health.</i> 21, Chittaranjan Avenue, Calcutta.
5-2-34	R	Law, BHABANI CHURN , <i>Merchant, Zemindar and Artist.</i> 223, Cornwallis Street, Calcutta.
5-8-14	L	LAW, BIMALA CHARAN , M.A., B.L., PH.D., F.R.HIST.S. 43, Kailas Bose Street, Calcutta.
1-2-11	R	*Law, NARENDRA NATH , M.A., B.L., PH.D., F.R.A.S.B. 96, Amherst Street, Calcutta.
4-2-35	R	LAW, PARBUTTY CHURN. 223, Cornwallis Street, Calcutta.
1-7-14	R	LAW, SATYA CHURN , M.A., B.L., PH.D., F.N.I., F.Z.S., M.B.O.U. 50, Kailas Bose Street, Calcutta.
7-6-26	R	Lemmon, RICHARD DENNIS , <i>Merchant.</i> c/o Messrs. Martin & Harris, Ltd., 17, Prinsep Street, Calcutta.
1-6-31	R	Lort-Williams, THE HON'BLE MR. JUSTICE JOHN , KT., K.C., <i>Barrister-at-Law, Judge, High Court.</i> 227/1, Lower Circular Road, Calcutta.
5-7-26	A	Lyne, HOWARD WILLIAM , I.C.S. Khulna, E.B.R.
2-8-05	L	*McCay, DAVID , LT.-COL., I.M.S., M.D., B.CH., B.A.O., M.R.C.P., F.R.A.S.B. c/o The Standard Bank of S. Africa, Hanover, Cape Province, S. Africa.
11-1-93	L	*MacLagan, SIR EDWARD DOUGLAS , K.C.S.I., K.O.I.E., F.R.A.S.B. 39, Egerton Terrace, London, S.W. 3.
7-6-16	N	Mahajan, SURYA PRASAD. Murarpur, Gaya.
3-3-20	R	Mahalanobis, P. C. , M.A., B.SC., F.N.I., I.E.S., <i>Professor, Presidency College.</i> 210, Cornwallis Street, Calcutta.
2-5-38	R	Mahtab, MAHARAJ KUMAR A. C. Bijay Manzil, 2, Judge's Court Road, Alipur, Calcutta.
1-3-11	R	Mahtab, SIR BIJAY CHAND , K.C.S.I., I.O.M., MAHARAJA-DHIRAJA BAHADUR OF BURDWAN. 2, Judge's Court Road, Alipur, Calcutta.

Date of Election.		
3-2-30	N	Mahtab , UDAY CHAND, B.A., <i>Maharaj Kumar of Burdwan</i> . The Palace, Burdwan.
6-2-24	R	Mahindra , K. C., B.A. (CANTAB.). Messrs. Martin & Co., 12, Mission Row, Calcutta.
3-7-39	R	Majumdar , JATINDRA MOHAN, M.A., <i>Deputy Dock Superintendent, Calcutta Port Commissioners</i> . 29, School Row, Bhawanipore, Calcutta.
2-2-16	R	Majumdar , NARENDRA KUMAR, M.A., <i>Professor, Calcutta University</i> . 3, Government Place, West, Calcutta.
4-6-13	N	Majumdar , RAMESH CHANDRA, M.A., PH.D., <i>Vice-Chancellor, Dacca University</i> . Ramna, Dacca.
5-5-30	A	Mallam , G. L., CAPTAIN, I.A., <i>Census Superintendent</i> . Peshawar, N.-W.F.P.
4-11-29	R	Mallya , BANTWAL GANAPATHY, LT.-COL., I.M.S., F.R.C.S.E., <i>Superintendent, Campbell Medical School</i> . Calcutta.
7-9-36	N	Mandhata , H. C., M.A. (ALLAHABAD), <i>Member, Pelman Institute, formerly History Lecturer, Agra College</i> . Ghaziabad, Meerut.
6-2-18	L	*Manen , JOHAN VAN, C.I.E., <i>Officer de l'Instruction Publique, F.R.A.S.B.</i> 6, Temple Chambers, 6, Old Post Office Street, Calcutta.
5-6-01	F	Mann , HAROLD HART, D.SC., M.SC., F.I.C., F.I.S. Woburn Experimental Station, Aspley Guise, Bedfordshire, England.
6-1-30	N	Martin , M. F. C., MAJOR, R.E. c/o The Garrison Engineer, Loralai, Baluchistan.
5-5-30	A	Matthias , OWEN GARDINER, <i>Managing Director, Messrs. Smith Stanistreet & Co., Ltd.</i> Stanistreet House, 18, Convent Road, Entally, Calcutta.
2-1-28	N	Mello , FROILANO DE, COLONEL, <i>Director-General of Medical Services in Portuguese India, Professor of Parasitology</i> . Nova Gôa.
6-3-39	R	Meyer , MISS SALLY, M.A., <i>Professor of Botany, Bethune College</i> . 11, Sudder Street, Calcutta.
5-11-84	L	*Middlemiss , CHARLES STEWART, C.I.E., F.R.S., B.A., F.G.S., F.R.A.S.B. Aviemore, Crowborough, Sussex, England.
1-2-26	N	*Mills , JAMES PHILIP, I.C.S., M.A. (OXON), J.P., F.N.I., F.R.A.S.B. Shillong, Assam.
5-6-12	N	Misra , CHAMPA RAM, B.A., RAI BAHADUR, Pandit, <i>Diwan, Chhatarpur State</i> . Bundelkhand, C.I.
2-4-24	R	Mitra , J. C., M.A., B.L., <i>Retired Accountant-General, Bengal</i> . 1, Abinash Mitter Lane, Calcutta.
5-3-24	N	Mitter , THE HON'BLE SIR B. L., K.C.S.I., M.A., B.L., <i>Barrister-at-Law, Advocate-General, Federal Court</i> . New Delhi.
5-4-26	R	Mitter , KHAGENDRA NATH, RAI BAHADUR, M.A., <i>Professor, Presidency College (Retired)</i> . 6, Ballygunge Place, Calcutta.
30-9-35	R	Mitter , SUDHIR CHUNDER, <i>Barrister-at-Law</i> . 19, Camac Street, Calcutta.
7-12-36	R	Mittra , S. C. 34, Shampukur Street, Calcutta.
1-11-26	R	Modi , JAL R. K., B.A. 4, Camac Street, Calcutta.
5-3-34	R	Modi , JEHANGIR JEEVANJI JAMSHEDJI, <i>Merchant</i> . 5, Dhurumtollah Street, Calcutta.
5-11-24	R	Mookerjee , B. N., B.A. (CANTAB.), <i>Engineer</i> . 12, Mission Row, Calcutta.
2-7-24	R	Mookerjee , SYAMAPRASAD, M.A., B.L., D.LITT., <i>Barrister-at-Law</i> . 77, Asutosh Mookerjee Road, Calcutta.

Date of Election.		
5-4-37	N	Mooney, H. F., I.F.S., <i>Forest Adviser.</i> Sambalpur, B.N. Ry., Orissa.
5-7-37	N	Mozumdar, SUPRABHAT, <i>Master, Rajkumar College.</i> Staff Club, Raipur, C.P.
2-2-21	N	Mukerjee, SUBODH CHANDRA, SHASTRI, M.A., DOCTEUR-ES-LETTRES (PARIS), <i>Secretary, Mayurbhanj State.</i> Baripada.
6-2-28	R	Mukerji, SIR MANMATHA NATH, KT., M.A., B.L., <i>Late Judge, High Court.</i> 8/1, Harsi Street, Calcutta.
5-7-37	R	Mukerji, PANNALAL, RAI BAHADUR, <i>Zemindar and Honorary Magistrate.</i> 7, Rajmohan Road, Uttarpura, Hooghly.
6-3-39	R	Mukerjee, S. C., <i>Retired Member of the Indian Civil Service,</i> 25/1, Rowland Road, Calcutta.
5-12-27	R	Mukherjee, SUSIL KUMAR, F.R.C.S. (EDIN.), D.O. (OXON), D.O.M.S. (LOND.), <i>Ophthalmic Surgeon, Carmichael Medical College Hospitals.</i> 1/1, Wood Street, Calcutta.
7-11-27	N	Mukherjee, DEVAPROSANNA, M.A., B.L., <i>Zemindar.</i> Burdwan.
2-8-26	R	*Mukherjee, JNANENDRA NATH, D.SC. (LONDON), F.C.S. (LONDON), F.N.I., F.R.A.S.B., <i>Ghose Professor of Chemistry, University of Calcutta.</i> 92, Upper Circular Road, Calcutta.
5-7-26	R	Mukhopadhyaya, PRABHAT KUMAR, M.A., <i>Research Assistant, Calcutta University.</i> 6, Hindustan Park, Ballygunge, Calcutta.
2-2-21	R	Mukhopadhyaya, RAMAPRASAD, M.A., B.L. 77, Ashutosh Mookerjee Road, Bhawanipore, Calcutta.
2-4-28	R	Mullick, KARTICK CHURN, KUMAR, <i>Director, Raja D. N. Mullick & Sons, Ltd.</i> Colootola Rajbati, Chittaranjan Avenue, Calcutta.
6-8-34	R	Mullick, MANICK LALL, <i>Landholder ; Honorary Magistrate, Sealdah.</i> 123, Grey Street, Calcutta.
4-3-29	R	Mullick, PRAMATHA NATH, RAI BAHADUR, <i>Zemindar and Landholder.</i> 129, Cornwallis Street, Calcutta.
7-5-28	N	Murray, EUGENE FLORIAN OLIPHANT, A.I.M.M., F.G.S., <i>Mining Geologist and Engineer.</i> Tatanagar, B.N.Ry.
5-6-39	R	Nag, KALIDAS, M.A. (CAL.), D.LITT. (PARIS), <i>Lecturer, Calcutta University.</i> 283, Park Circus, Calcutta.
5-12-27	L	Namgyal, H.H. MAHARAJA SIR TASHI, K.C.I.E., <i>Maharaja of Sikkim.</i> Gangtok, Sikkim.
6-6-27	N	Nandi, MAHARAJA SRIS CHANDRA, M.A., M.L.C., <i>Zemindar.</i> Kasimbazar Rajbari, Kasimbazar, Murshidabad.
4-2-29	N	Narain, HIRDE, M.A., B.T., <i>Professor of History, Morris College.</i> Nagpur, C.P.
5-2-34	N	Nariman, RUSTOM, K., M.I.C.E., A.C.H., F.R.G.S. (Retired Superintending Engineer, Punjab Irrigation), <i>Professor of Engineering, Osmania University.</i> c/o The Union Bank of India. Fort, Bombay.
5-3-28	R	Neogi, PANCHANAN, M.A., PH.D., F.N.I., I.E.S., <i>Professor of Chemistry, Presidency College.</i> 21, Kundu Lane, Belgachia, Calcutta.
3-11-30	N	Newman, CARL DAMIEN, M.B.E.S., D.T.M. & H., <i>District Medical Officer, E.B. Ry.</i> Lalmonirhat, E.B. Ry.
3-12-24	A	Newman, CHAS. F., F.R.G.S., M.R.S.T., M.C.P. Ramnagar, Benares.

Date of Election.		
7-4-15	L	Ohtani , COUNT KOZUI. San-ya-so, Edomachi, Fushimi, Kyoto, Japan.
5-11-28	R	Olpadvala , E. S. 52, Chowringhee, Calcutta.
1-5-39	R	Parker , E., CAPT., I.A. (RETD.). c/o Remington Rand Inc., 3, Council House Street, Calcutta.
5-2-34	R	Pasricha , CHIRANJI LAL, M.A., M.B., B.CHIR. (CANTAB.), M.R.C.S. (ENG.), L.R.C.P. (LOND.), MAJOR, I.M.S., <i>Professor of Pathology, Bacteriology and Helminthology, School of Tropical Medicine and Hygiene</i> . Chittaranjan Avenue, Calcutta.
6-6-88	L	Pannell , AUBRAY PERCIVAL, B.A., <i>Barrister-at-Law</i> . Lamb's Building, Temple, London, E.C. 4.
5-2-34	N	Percival , FREDERICK GEORGE, PH.D. (LOND.), F.G.S., <i>General Superintendent, Ore Mines and Quarries, Tata Iron and Steel Co.</i> Jamshedpur.
1-4-25	R	Perier , FERDINAND, S.J., <i>Most Reverend the Archbishop of Calcutta</i> . 32, Park Street, Calcutta.
3-4-18	L	*Prashad , BAINI, D.SC., F.Z.S., F.R.S.E., F.N.I., F.R.A.S.B., <i>Director, Zoological Survey of India</i> . Indian Museum, Calcutta.
3-8-25	N	Pruthi , HEM SINGH, M.SC. (PUNJAB), PH.D. (LONDON), F.N.I., <i>Imperial Entomologist, Imperial Institute of Agricultural Research</i> . Pusa, Darbhanga.
3-12-24	R	Pushong , E. S., M.D., I.S.A., <i>Medical Practitioner</i> . 1, Chapel Road, Hastings, Calcutta.
3-11-30	R	Rahman , SHAH KALIMUR, M.A., <i>Lecturer in Arabic and Persian, Calcutta University</i> . Suite 16, 15/1, Hatibagan Road, Calcutta.
7-9-36	N	Ram , DOULAT, <i>Accountant, Military Secretary's Office</i> . c/o Messrs. Biru Mal Chiranjil Lal, Chhatla Magni Ram, Patiala.
2-1-39	R	Ramachandran , T. N., M.A., <i>Offg. Superintendent, Archaeological Section, Indian Museum</i> . 27, Chowringhee, Calcutta.
2-10-39	N	Rangarajam , KRISHNASWAMI, <i>Employee, I.C.I. (India) Ltd., Madras</i> . Rukinani Building, Mambalam West, Madras.
6-4-36	R	Rankin , E. H. 6, Durgapore Park (or 6, Church Lane), Calcutta.
6-8-34	R	Rao , U. SHANKER, <i>Bengal Pilot Service</i> . 83, Chowringhee, Calcutta.
1-2-26	N	Rao , Y. RAMACHANDRA, RAO SAHIB, M.A., F.E.S., <i>Locust Research Entomologist</i> . 5, Scindia House, New Delhi.
2-7-24	N	Ray , ABINASH CHANDRA, B.A. R.M.H.E. School, P.O. Baidyabati.
7-9-21	R	Ray , HEM CHANDRA, M.A., PH.D. (LONDON), D.LIT. (LONDON). 135B, Vivekananda Road, Calcutta.
5-1-21	N	Ray , JAGADISNATH, MAHARAJA, <i>Maharaja of Dinajpore</i> . Dinajpore.
5-3-90	R	*Ray , SIR PROFULLA CHANDRA, KT., C.I.E., D.SC., F.N.I., F.R.A.S.B. University College of Science, 92, Upper Circular Road, Calcutta.
4-12-39	R	Ray-Chowdhury , H. C., <i>Carmichael Professor of Ancient Indian History and Culture, Calcutta University</i> . 6, Mysore Road, Kalighat, Calcutta.

Date of Election.		
5-11-28	L	Reinhart , WERNER, <i>Merchant</i> . c/o Messrs. Volkart Bros., Rychenberg, Winterthur, Switzerland.
2-4-24	F	Richards , F. J., I.C.S. 1-A, Collingham Road, London, S.W. 5.
5-2-34	R	Richter , HERBERT, DR. JUR., <i>Vice-Consul for Germany</i> . 26, Lee Road, Calcutta.
3-12-24	L	Roerich , GEORGE NICHOLAS, M.A., M.R.A.S., <i>Orientalist</i> . 310, Riverside Drive, New York, U.S.A. ('Urusvati' Naggar, Kulu, Punjab).
2-7-28	L	Roerich , NICHOLAS, <i>Professor, Honorary President, Master Institute of United Arts, New York, U.S.A., Artist-Painter</i> . 310, Riverside Drive, New York, U.S.A.
4-12-01	F	*Ross , SIR EDWARD DENISON, KT., C.I.E., PH.D., F.R.A.S.B. 229, St. James Court, Buckingham Gate, London, S.W. 1.
5-6-33	R	Rossetti , FELIX FRANCIS LEO, <i>Secretary, Y.M.C.A.</i> 42, Corporation Street, Calcutta.
6-12-26	R	Roy , SIR A. K., KT., <i>Barrister-at-Law, Advocate-General, Bengal</i> . 3, Upper Wood Street, P.O. Theatre Road, Calcutta.
5-4-37	N	Roy , DAVID, <i>Assam Civil Service</i> . Shillong, Assam.
1-12-30	N	Roy , KUMAR KAMALARANJAN, B.A., <i>Zemindar</i> . Kashmir-bazar Post. Dt. Murshidabad.
6-8-24	N	Roy-Chowdhury , BRAJENDRA KISHORE, <i>Zemindar</i> . (53, Sukea Street, Calcutta.) Gauripur, Mymensingh.
7-5-28	R	*Saha , MEGHNAD, D.SC., F.R.S., F.N.I., F.R.A.S.B., <i>Palit Professor of Physics, Calcutta University</i> . 92, Upper Circular Road, Calcutta.
5-4-37	R	Sahni , M. R., M.A. (CANTAB.), D.SC. (LOND.), D.I.C., <i>Geologist, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
5-2-34	L	Sale , HAROLD MONTAGUE, M.A., F.G.S., <i>Mancetter College, Athershorne, Warwickshire, England</i> .
3-12-24	R	Sarkar , C. K., C.E., <i>Engineer and Architect</i> . 10, Hastings Street, Calcutta.
4-2-35	R	Sarkar , THE HON'BLE MR. NALINI RANJAN. <i>Hindusthan Buildings, Corporation Street, Calcutta</i> .
5-4-37	R	Sattar , THE HON'BLE MR. A. R. H. A., <i>Member, Council of State</i> . 32, Ezra Street, Calcutta.
6-3-33	R	Seal , SATIS CHANDRA, M.A., B.L., <i>Honorary Secretary, Indian Research Institute</i> . 55, Upper Chitpore Road, Calcutta.
1-4-25	R	Sen , BENoy CHANDRA, M.A. 'Rupeswar', <i>Diamond Harbour Road, Behala</i> .
9-12-36	R	Sen , D. N. 7, Rawdon Street, Calcutta.
3-12-24	N	Sen , H. K., M.A., D.SC. (LONDON), D.I.C., <i>Director, Indian Lac Research Institute</i> . Namkum, Ranchi.
1-6-36	N	Sen , J. M., M.ED. (LEEDS), B.SC. (CAL.), T.D. (LOND.), DIP.ED. (OXFORD), F.R.G.S., F.N.I. <i>Principal, Krishnagar College</i> . Krishnagar. Nadia.
5-12-23	L	Sen , LAKSHMAN, H.H. RAJA OF SUKET. <i>Suket State, Punjab</i> .
5-4-37	N	Sen , KSHITISH MOHAN. <i>Visvabharati, Santiniketan, Dist. Birbhum</i> .
1-4-29	R	Sen-Gupta , NARES CHANDRA, M.A., D.L., <i>Advocate, High Court</i> . 88A, Lansdowne Road, Bhowanipore, Calcutta.

Date of Election		
5-7-11	L	*Sewell, ROBERT BERESFORD SEYMOUR, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S., L.R.C.P., F.Z.S., F.L.S., F.R.S., F.N.I., F.R.A.S.B., LT.-COL., I.M.S., Late Director, Zoological Survey of India. 18, Barrow Road, Cambridge, England.
5-4-37	N	Sharaf-ud-Din, S., M.A., B.L., Professor, Chittagong College. Chittagong.
2-11-25	N	Sharif, MOHAMMAD, D.SC., F.R.M.S., F.L.S., Lecturer in Zoology. Muslim University, Aligarh.
6-5-29	N	Sharma, SRI RAM, M.A., M.B.A.S., M.A.O.S., Professor of History. D.A.V. College, Lahore.
5-8-35	N	Shattock, JOHN SWITHIN HARVEY, B.A. (OXON), I.C.S. Political Department, New Delhi.
2-5-23	F	Shebbeare, E. O., Chief Game Warden. Post Box No. 376, Kuala Lumpur, F.M.S.
6-1-09	N	Shirreff, ALEXANDER GRIERSON, B.A., I.C.S., Commissioner. Gorakhpur, U.P.
6-3-01	N	*Shirwani, THE HON'BLE NAWAB SADR YAR JUNG, MAULANA HABIB UR RAHMAN, F.R.A.S.B., Rais, Bhikanpur. Habibganj, District Aligarh.
4-1-26	N	Shortt, H. E., F.N.I., LT.-COL., I.M.S., Director, King's Institute, Guindy. Madras.
6-2-28	L	Shumser, JUNG BAHADUR RANA, SIR KAISER, K.B.E., SURPRADIPTA MANYAVARA, LIEUT.-GENERAL, Nepalese Army. Kaiser Mahal, Kathmandu, Nepal.
4-11-29	R	Siddiqi, MOHAMMAD ZUBAYR, M.A., PH.D., Sir Asutosh Professor of Islamic Culture, Calcutta University. P. 274, Bright Street, Park Circus, Calcutta.
6-2-39	N	Simeons, ALBERT THEODORE WILLIAM, M.D. (HEIDELBERG), Physician, Khatau Mansion, Cooperage, Bombay.
5-3-13	L	*Simonsen, JOHN LIONEL, D.SC., F.I.C., F.R.S., F.R.A.S.B. University College of North Wales, Bangor, North Wales.
6-3-39	F	Sinclair, GREGG M., Director, Oriental Institute, University of Hawaii. Honolulu, Hawaii, U.S.A.
6-2-18	N	Singh, MANYABARA BADA KAJI MARICHI MAN, PANDITJI, C.I.E. 38, Khichapokhari, Kathmandu, Nepal.
4-11-29	A	Singh, JAIPAL, M.A. (Modern Greats), St. John's College, Orford University. Achimota College, Accra, West Africa.
5-3-34	L	Singh, HIS HIGHNESS THE HON'BLE MAHARAJADHIRAJA SIR KAMESWAR, K.C.I.E. Darbhanga.
2-1-33	N	Singh, RUDRA PERTAB, RAO BAHADUR, Proprietor, Sonbarsa Raj. Sonbarsa P.O., District Bhagalpore.
4-2-35	A	Singh, SARABJIT, M.A., B.L. P.O. Imphal, Manipur State.
3-6-35	R	Singhania, RAGHUNATH PRASAD, VIDYABHUSAN-VISARAD, Secretary, Rajasthan Research Society. 73A, Chasa Dhoba Para Street, Simla, Calcutta.
5-9-12	R	Singhi, BAHADUR SINGH. (Azimganj, Murshidabad). 48, Gariahat Road, Calcutta.
7-8-33	N	Sinh, RAGHUBIR, RAJKUMAR, M.A., LL.B., Heir-Apparent of Sitamau State. Raghbir Niwas, Sitamau, C.I.
1-8-38	R	Sinha, B. 4, Hastings Park Street, Calcutta.
6-6-27	N	Sinha, SHEONANDAN PRASAD, M.D., Assistant Surgeon. Government Hospital, Jamshedpur.
6-2-28	R	Sinha, SUHRID CHANDRA, KUMAR, M.SC. 15/1, Ram Kanta Bose Street, Shambazar, Calcutta.
4-1-26	N	Sinton, J. A., O.B.E., LT.-COL., I.M.S., V.C., Officer-in-Charge, Malaria Bureau. Central Research Institute, Kasauli.

Date of Election.		
5-7-16	L	Sircar, GANAPATI, VIDYARATNA. 69, Beliaghata Main Road, Calcutta.
5-3-24	R	Sircar, SIR NIL RATAN, KT., M.A., M.D., Physician. 7, Short Street, Calcutta.
5-8-29	R	Sommerfeld, ALFRED, Merchant. c/o Mousell & Co., Mercantile Buildings, Lall Bazar, Calcutta.
3-9-34	R	Sondhi, VED PALL, M.SC., F.G.S., Assistant Superintendent, Geological Survey of India. 27, Chowringhee, Calcutta.
7-3-23	F	Stamp, L. DUDLEY, B.A., D.SC. University of London, London School of Economics, Houghton Street, London, W.C. 2.
28-9-04	L	*Stapleton, HENRY ERNEST, M.A., B.SC., D.LITT., F.R.A.S.B., <i>Late Director of Public Instruction, Bengal.</i> St. Brelade, Jersey, C.I., England.
5-11-28	N	Statham, R. M., C.I.E., B.A., I.E.S., Director of Public Instruction. Madras.
5-4-37	R	Sufi, M. E., B.A., D.P.H., L.R.C.P.E., L.R.C.S.E., L.F.P.S.G., <i>Assistant Director of Public Health, Bengal (retd.).</i> 8/A/1, Elliott Lane, Calcutta.
2-6-20	R	Suhrawardy, SIR HASSAN, O.B.E., LT.-COL., KT., M.D., F.R.C.S.I., D.P.H., Chief Medical Officer, E.B. Ry., <i>Late Vice-Chancellor, Calcutta University.</i> 3, Suhrawardy Avenue, Park Circus, Calcutta.
3-3-20	N	Sundararaj, BUNGURU, M.A., F.N.I., PH.D., Director of Fisheries. Chepauk, Madras.
7-11-32	L	Suvarna, SHUMSER JUNG BAHADUR RANA, Major-General in the Nepalese Army. Singha Darbar, Kathmandu, Nepal.
6-4-98	R	Tagore, SIR PRADYOT COOMAR, KT., MAHARAJA BAHADUR. 'Tagore Castle', 12, Prasanna Coomar Tagore Street, Calcutta.
7-11-27	R	Tarkatirtha, BIMALANANDA, Kaviraj, Pundiubhusan, Ryakaranatirtha. 90/3, Grey Street, Calcutta.
31-8-93	L	Tate, GEORGE PASSMAN. 56, Cantonment, Bareilly, U.P.
1-6-04	L	*Tipper, GEORGE HOWLETT, M.A., F.G.S., M.INST.M.M., F.R.A.S.B. 'The Laurels', Glebe Road, Cambridge, England.
6-6-38	N	Tressler, G. W., M.A., Senior Professor of History and Political Science, Murray College. Sialkot, Punjab.
7-5-28	F	Tucci, GUISEPPE, PH.D., <i>Late Professor of Religions and Philosophy of India and the Far East, University of Rome; Professor of Chinese, University of Naples.</i> Naples, Italy.
5-7-26	A	Tyson, JOHN DAWSON, C.B.E., M.A. (OXON), I.C.S., J.P. c/o U.S. Club, Calcutta.
4-7-27	A	Vance, R. L., M.B., B.C.H., B.A.O. (DUB.), L.M. (ROT.), <i>MAJOR, I.M.S., Officiating Chief Medical Officer, Western India States Agency.</i> Rajkot, Kathiawar.
4-1-37	R	Vedantatirtha, NARENDRA CHANDRA, M.A. (BAGCHI, BHATTACHARJA, SANKHYATIRTHA, MIMAMSATIRTHA, TATTVARATNA, SASTRI), Author and Editor of Books, Secretary and General Editor, 'Calcutta Sanskrit Series'. Metropolitan Printing House.
7-8-33	R	Vedantatirtha, VANAMALI, M.A., Formerly Professor, Cotton College, Gauhati. 8/4-E, Nepal Bhattacharya Lane, Kalighat, Calcutta.

Date of Election.		
5-7-05	R	Vidyabhushan , AMULYA CHARAN. Vangiya Mahakosha, 5, Jadu Mitter Lane (North), Shambazar, Calcutta.
6-3-01	L	*Vogel , JEAN PHILIPPE, LITT.D., F.R.A.S.B. Noordeindsplein. 4a, Lieden, Holland.
27-9-94	L	Vost , WILLIAM, LT.-COL., I.M.S. 'Woodhurst', Manor Way, South Croydon, Surrey, England.
6-5-25	N	*Wadia , D. N., M.A., B.SC., F.R.G.S., F.N.I., F.R.A.S.B., <i>Government Mineralogist</i> . Torrington Square, Colombo, Ceylon.
5-3-28	N	Waight , HARRY GEORGE, B.A. (OXON and LOND.), F.R.G.S., I.C.S., <i>District and Sessions Judge</i> . Burdwan.
6-2-33	N	Wellsted , THOMAS ARTHUR, A.R.S.M., B.SC., ASSOC. INST. M.M., <i>Mining Engineer</i> . Mansar, P.O. Kandri, Ramtek, C.P.
6-2-33	R	West , WILLIAM DIXON, M.A. (CANTAB.), F.N.I., <i>Assistant Superintendent, Geological Survey of India</i> . 27, Chowringhee, Calcutta.
1-11-26	R	Westcott , FOSS, MOST REVEREND, D.D. (CANTAB.), HONORARY D.D. (OXON), <i>Lord Bishop of Calcutta and Metropolitan of India, Burma and Ceylon</i> . Bishop's House, 51, Chowringhee, Calcutta.
6-4-36	R	White , J. C., <i>American Consulate</i> . 9, Esplanade Mansions, Esplanade, Calcutta.
19-9-06	L	*Whitehead , RICHARD BERTRAM, F.R.A.S.B., I.C.S. (RETD.). 30, Millington Road, Cambridge, England.
6-5-29	A	Williams , HENRY FRENCH FULFORD, M.A., CLARE COLLEGE (CAMB.), <i>Chaplain of Barrackpore</i> . Barrackpore.
7-9-36	R	Williams , N. T., Orr Dignam & Co. 32, Dalhousie Sqr., Calcutta.
6-2-28	F	Williams , T. TALIESIN, M.A., B.SC. 2, Orchard, Welwyn Garden City, Herts., England.
5-4-37	F	Wolfenden , S. N. c/o Security-First National Bank, Beverley Hills Branch, 469, Canyon Drive, California, U.S.A.
1-4-08	R	Wordsworth , WILLIAM CHRISTOPHER, M.A., I.E.S. (RETD.). c/o The 'Statesman', Chowringhee Square, Calcutta.
5-2-19	N	*Yazdani , GHULAM, M.A., F.R.A.S.B., <i>Epigraphist to the Government of India for Persian and Arabic Inscriptions, Hyderabad</i> . Archaeological Survey, Hyderabad, Deccan.

ORDINARY MEMBERS.

(Chronological.)

1884.				1906.			
Nov.	5.	Middlemiss, C. S.		Jan.	3.	Chapman, J. A.	
1888.				Sept.	19.	Whitehead, R. B.	
June	6.	Pennell, A. P.		Oct.	31.	Finlow, R. S.	
1890.				1907.			
Mar.	5.	Ray, Sir Prafulla C.		July	3.	Brown, J. C.	25
				"	"	Christie, W. A. K.	
				1908.			
1892.				Jan.	1.	Brahmachari, Sir U. N.	
Jan.	11.	MacLagan Sir Edward D.		April	1.	Wordsworth, W. C.	
1893.				1909.			
5 Aug.	31.	Tate, G. Passman		Jan.	6.	Shirreff, A. G.	
1894.				April	7.	Bentley, C. A.	30
Sept.	27.	Vost, W.		July	7.	Bazaz, R. K.	
1895.				Oct.	6.	Brown, P.	
Sept.	19.	De, K. C.		"	"	Gangoli, O. C.	
1896.				1910.			
Jan.	8.	Burn, Sir Richard		May	4.	Dhavle, S. B.	
1898.				"	"	Kemp, S. W.	35
Jan.	5.	Dods, W. K.		Sept.	7.	Gravely, F. H.	
10 April	6.	Tagore, Sir Pradyot C.					
1900.				1911.			
Dec.	5.	Grieve, J. W. A.		Feb.	1.	Insch, J.	
				"	"	Law, N. N.	
1901.				Mar.	1.	Mahtab, Sir Bijay Chand	
Mar.	6.	Shirwani, H.		June	7.	Chatterjee, K. K.	40
"	"	Vogel, J. P.		"	"	Hossain, M. H.	
June	5.	Mann, H. H.		July	5.	Sewell, R. B. S.	
15 Dec.	4.	Ross, Sir Edward D.		Nov.	1.	Ahmed, K.	
1902.							
July	2.	Doxey, F.		1912.			
1904.				May	1.	Harley, A. H.	
June	1.	Tipper, G. H.		June	5.	Misra, C.	45
Aug.	3.	Fermor, Sir L. L.		July	3.	Andrews, E. A.	
"	"	Stapleton, H. E.		Sept.	4.	Ghosh, T.	
1905.				"	"	Singhi, B. S.	
20 July	5.	Vidyabhusana, A. C.					
Aug.	2.	McCay, D.		1913.			
				Mar.	5.	Simonsen, J. L.	
				April	2.	Calder, C. C.	50
				June	4.	Majumdar, R. C.	
				Nov.	5.	Fox, C. S.	

1914.			
	Mar.	4.	Bacot, J.
	July	1.	Law, S. C.
55	Aug.	5.	Law, B. C.
1915.			
	April	7.	Ohtani, Count K.
	Aug.	4.	Gurner, C. W.
	Oct.	27.	Chatterjee, Sir A.C.
1916.			
	Feb.	2.	Majumdar, N. K.
60	June	7.	Mahajan, S. P.
	July	5.	Sarkar, G.
1917.			
	April	4.	Awati, P. R.
	"	"	Aiyangar, K. V. R.
	Aug.	1.	Bhandarkar, D. R.
1918.			
65	Feb.	6.	Banerji, N. N.
	"	"	Manen, Johan van
	"	"	Singh, B. M.
	April	3.	Prashad, B.
1919.			
	Feb.	5.	Yazdani, G.
70	Mar.	5.	Gupta, S. P.
	Nov.	5.	Hemraj, R.
1920.			
	Mar.	3.	Mahalanobis, P. C.
	"	"	Sundara Raj, B.
	June	2.	Suhrawardy, Sir H.
75	Aug.	4.	Dikshit, K. N.
	Sept.	1.	Chakladar, H. C.
	"	"	Chanda, R. P.
	"	"	Chatterjee, N. C.
	Dec.	"	Akbar Khan, Sir M.
1921.			
80	Jan.	5.	Ray, J. N.
	Feb.	2.	Jain, Chhote Lall
	"	"	Mukherjee, R. P.
	"	"	Mookherjee, S. C.
	Mar.	2.	Agharkar, S. P.
85	Sept.	7.	Ray, H. C.
	Nov.	2.	Hora, S. L.

1922.			
	Feb.	1.	Chopra, R. N.
	April	5.	Abdul Ali, A. F. M.
1923.			
	Mar.	7.	Labey, G. T.
	"	"	Stamp, L. D. 90
	May	2.	Shebbeare, E. O.
	June	6.	Howard, Sir A.
	"	"	Hutton, J. H.
	Aug.	1.	Biswas, K. P.
	Dec.	5.	Chopra, B. N. 95
	"	"	Barwell, N. F.
	"	"	Sen, H. H. Lakshman
1924.			
	Feb.	6.	Mahindra, K. C.
	Mar.	5.	Banerjee, P. N.
	"	"	Mitter, Sir B. L. 100
	"	"	Sircar, Sir N. R.
	April	2.	Bahl, K. N.
	"	"	Ghose, K.
	"	"	Richards, F. J.
	"	"	Haq, M. M. 105
	"	"	Mitra, J. C.
	May	7.	Bhattacharya, B.
	July	2.	Ray, A. C.
	"	"	Mookerjee, S. P.
	Aug.	6.	Chatterji, S. K. 110
	"	"	Roy Chowdhury, B. K.
	"	"	Davies, L. M.
	Nov.	5.	Chattopadhyay, K. P.
	"	"	Mookerji, B. N.
	Dec.	3.	Newman, Chas. F. 115
	"	"	Pushong, E. S.
	"	"	Basu, J. N.
	"	"	Ghose, S. C.
	"	"	Roerich, G. N.
	"	"	Sen, H. K. 120
	"	"	Khan, R. R.
	"	"	Sarkar, C. K.
1925.			
	Feb.	4.	Guba, B. S.
	Mar.	4.	Benthall, Sir E. C.
	"	"	Das, A. N. 125
	"	"	Deb, K.
	April	1.	Perier, F.
	"	"	Hobbs, H.
	"	"	Sen, B. C.
	May	6.	Wadia, D. N. 130
	July	6.	Bose, M. M.
	Aug.	3.	Pruthi, H. S.
	Nov.	2.	Acharya, P.

	Nov.	2.	Chattopādhyāya, K. C.
135	"	"	Crookshank, H.
	"	"	Kimura, R.
	"	"	Sharif, M.
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1926.			
	Jan.	4.	Shortt, H. E.
	"	"	Sinton, J. A.
140	Feb.	1.	Rao, Y. R.
	"	"	Ghuznavi, Sir A. H.
	"	"	Harris, H. G.
	Mar.	1.	Datta, H. N.
	"	"	Basu, N. K.
145	"	"	Kramrisch, Stella
	"	"	Bagnall, J. F.
	April	5.	Ghose, B. C.
	"	"	Bhatia, M. L.
	"	"	Mitter, K. N.
150	June	6.	Lemmon, R. D.
	July	5.	Mukhopadhyaya, P. K.
	"	"	Tyson, J. D.
	"	"	Lyne, H. W.
	Aug.	2.	Mukherjee, J. N.
155	"	"	Khettry, B.
	Nov.	1.	Jameson, T. B.
	"	"	Modi, J. R. K.
	"	"	Westcott, F.
	"	"	Mills, J. P.
160	"	"	Galstaun, S.
	"	"	Bagchi, P. C.
	Dec.	6.	Aiyangar, S. K.
	"	"	Roy, A. K.
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1927.			
	Jan.	3.	Chakravarty, N.
165	"	"	Bivar, H. G. S.
	Feb.	7.	Chatterjee, A.
	Mar.	7.	Hopkinson, A. J.
	"	"	Bake, A. A.
	"	"	Ghosh, P. N.
170	"	"	Abdul Kadir, A. M. F.
	June	6.	Nandi, Maharaja S. C.
	"	"	Jain, B.
	"	"	Sinha, S. P.
	July	4.	Chatterjee, P. P.
175	"	"	Chakravarti, C.
	"	"	Vance, R. L.
	Nov.	7.	Tarkatirtha, B.
	"	"	Mukherji, D.
	"	"	Brahmachary, S. C.
180	Dec.	5.	Namgyal, H.H. Sir Tashi
	"	"	Dechhen, H.H. Kunzang

	Dec.	5.	Chowdhury, Sir C. Mukerjee, S. K.
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1928.			
	Jan.	2.	Basu, N. M.
	"	"	Mello, F. de 185
	Feb.	6.	Sinha, S. C.
	"	"	Ezra, Sir D.
	"	"	Mukerji, Sir M. N.
	"	"	Williams, T. T.
	"	"	Shumsher, Sir Kaiser 190
	Mar.	5.	Waight, H. G.
	"	"	Gooptu, D. N.
	"	"	Neogi, P.
	"	"	Biswas, C. C.
	"	"	Eberl, Otto 195
	April	2.	Mullick, K. C.
	"	"	Chowdhury, Rai J. N.
	"	"	Harris, L. E.
	May	7.	Chatterji, K. N.
	"	"	Chatterjee, Sir N. R. 200
	"	"	Tucci, G.
	"	"	Murray, E. F. O.
	"	"	Ghosal, U. N.
	"	"	Saha, M. N.
	June	4.	Bhadra, S. N. 205
	"	"	Bhattasali, N. K.
	July	2.	Roerich, N.
	Aug.	6.	Jaitly, P. L.
	"	"	Ghuznavi, I. S. K.
	"	"	Heron, A. M. 210
	Nov.	5.	Olpadvala, E. S.
	"	"	Statham, R. M.
	"	"	Reinhart, W.
	"	"	Galstaun, J. C.
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1929.			
	Jan.	7.	Ghose, M. C. 215
	Feb.	4.	Narain, Hirde
	"	"	Jenkins, W. A.
	Mar.	4.	De, J. C.
	"	"	Mullick, P. N.
	April	1.	Ghose, D. P. 220
	"	"	Sen-Gupta, N. C.
	May	6.	Sharma, S. R.
	"	"	Williams, H. F. F.
	July	1.	Dunn, J. A.
	Aug.	5.	Sommerfeld, A. 225
	Nov.	4.	Singh, J.
	"	"	Cotter, G. de P.
	"	"	Campbell, G. R.
	"	"	Siddiqi, M. Z.
	"	"	Mallya, B. G. 230
	Dec.	2.	Fawcus, L. R.
<hr/>			
1930.			
	Jan.	6.	Jain, N. K.
	"	"	Halder, S. K.

	Jan.	6.	Martin, M. F. C.
235	"	"	Chakraverti, S. C.
	Feb.	3.	Mahtab, U. C.
	"	"	Chakravarti, M. N.
	Mar.	3.	Ashton, H. S.
	May	5.	Deo, Sir P. C. Bhanj
240	"	"	Matthias, O. G.
	"	"	Mallam, G. L.
	"	"	Cooper, G. A. P.
	June	2.	Kenny, D. E. C.
	Nov.	3.	Austin, G. J.
245	"	"	Rahman, S. K.
	"	"	Newman, C. D.
	Dec.	1.	Roy, K. K.

1931.

	Jan.	5.	Chatterji, D.
	"	"	Evans, P.
250	Feb.	2.	Douglas, G. W.
	"	"	Clough, J.
	Mar.	2.	Bose, S. K.
	April	6.	Bhose, J. C.
	May	4.	Bottomley, J. M.
255	June	1.	Lort-Williams, J.
	Aug.	3.	Barua, K. L.

1932.

	Mar.	7.	Hughes, A.
	"	"	Chakraborty, K. B.
	"	"	Darbari, M. D.
260	Nov.	"	Suvarna Shumser
	"	"	Driver, D. C.
	Dec.	5.	Dutt, N.
	"	"	Boyle, C. A.

1933.

	Jan.	2.	George, J.
265	"	"	Dutch, R. A.
	"	"	Singh, R. P.
	Feb.	6.	Wellsted, T. A.
	"	"	Ghatak, J. C.
	"	"	West, W. D.
270	Mar.	6.	Seal, S. C.
	June	5.	Chakravarti, S. K.
	"	"	Rossetti, F. F. L.
	July	3.	Dutt, G. S.
	Aug.	7.	Singh, Raghubir
275	"	"	Vedantatirtha, V.
	Nov.	6.	Coulson, A. L.

1934.

	Jan.	1.	Ahmad, M. J.
	Feb.	5.	Bhuyan, S. K.
	"	"	Halder, B. V.

	Feb.	5.	Kirby, W.	280
	"	"	Law, B. C.	
	"	"	Nariman, R. K.	
	"	"	Pasricha, C. L.	
	"	"	Percival, F. G.	
	"	"	Richter, H.	285
	"	"	Sale, H. M.	
	Mar.	5.	Modi, J. J. J.	
	"	"	Singh, H. H. Sir K.	
	May	7.	Bent, W. A.	
	June	4.	Chatterji, B. R.	290
	Aug.	6.	Husain, S. A.	
	"	"	Mullick, M. L.	
	"	"	Rao, U. S.	
	Sep.	3.	Auden, J. B.	
	"	"	Sondhi, V. P.	295
	Nov.	5.	Gee, E. R.	
	"	"	Dey, M.	
	Dec.	3.	Burt, B. C.	
	"	"	Brahmachari, P. N.	
	"	"	Chatterjee, S. C.	300

1935.

	Feb.	4.	Singh, S.	
	"	"	Sarkar, N. R.	
	"	"	Law, P. C.	
	"	"	Lal, R. B.	
	Mar.	4.	Groth, E. M.	305
	June	3.	Singhanian, R. P.	
	Aug.	5.	Shattock, J. S. H.	
	Sep.	30.	Dutt, M. N.	
	"	"	Mitter, S. K.	
	Nov.	4.	Bor, N. L.	310
	"	"	Chaudhuri, S. N.	
	"	"	Anna Klebe.	
	"	"	Hirtzel, M. A. F.	

1936.

	Jan.	6.	Brocke, A. G.	
	"	"	Berkely-Hill, O.	315
	Feb.	3.	Flury, E. C.	
	"	"	Catto, Lord	
	"	"	Ahmad, A.	
	Mar.	2.	Chatterji, Mrs. T.	
	"	"	Chatterjee, M.	320
	April	6.	White, J. C.	
	"	"	Rankin, E. H.	
	June	1.	Sen, J. M.	
	Sep.	7.	Williams, N. T.	
	"	"	Ghosh, J.	325
	"	"	Ram, D.	
	"	"	Mandhata, H. C.	
	"	"	Gangooly, P. L.	
	"	"	Bagchi, K. N.	
	Nov.	2.	Bothra, S.	330
	Dec.	9.	Sen, D. N.	
	"	"	Mitra, S. C.	

	Dec.	9.	Gillespie, A. D.
	"	"	Bose, A. N.
335	"	"	Basu, I. B.
	"	"	Banerjee, S. M.

1937.

	Jan.	4.	Vedantatirtha, N. C.
	April	5.	Sufi, M. E.
	"	"	Sharaf-ud-Din, S.
340	"	"	Sattar, A. H.
	"	"	Sahni, M. R.
	"	"	Roy, D.
	"	"	Mooney, H. F.
	"	"	Sen, K. M.
345	"	"	Asari, J. R.
	April	5.	Wolfenden, S. N.
	July	5.	Mozumdar, S.
	"	"	Mukherjee, P.
	Sep.	6.	Halim, A.
350	"	"	Durniz-Podewils, Count
	"	"	Bhattacharya, N. C.

1938.

	Feb.	7.	Chakravarti, P. K.
	April	4.	Chaudhuri, Mrs. R.
	"	"	Anderson, J.
355	May	2.	Faroqui, K. G. M.
	"	"	Mahtab, Maharaj Kumar, A. C.
	"	"	Jacob, J. R.

	June	6.	Tressler, G. W.
	"	"	Dudhuria, N. K. S.
	July	4.	Carstairs, A. M.
	Aug.	1.	Sinha, B.
	"	"	Banerjee, J. N.
	Nov.	1.	Jatia, K. L.
	"	"	Eekhout, Jhr., P. J.
	Dec.	5.	Das Gupta, C. C.

360

365

1939.

	Jan.	2.	Bose, S. M.
	"	"	Ramachandran, T. N.
	Feb.	6.	Basu, J. N.
	"	"	Simeons, A. T. W.
	"	"	Chakravarti, R. M.
	Mar.	6.	Culshaw, W. J.
	"	"	Sinclair, G. M.
	"	"	Mukerjee, S. C.
	"	"	Meyer, Miss S.
	May	1.	Parker, E.
	"	"	Ayrton, S. M.
	June	5.	Ali, S. S.
	"	"	Nag, K.
	July	3.	Majumdar, J. M.
	Aug.	7.	Bose, G.
	Sep.	4.	Ghosh, J. C.
	Oct.	2.	Hasan, Z.
	"	"	Basu Mazoomder, W.
	"	"	Rangarajam, K.
	Dec.	4.	Ray Chowdhury, H. C.
	"	"	Cameron, A.

370

375

380

385

LIFE MEMBERS.

(Chronological.)

	5-11-84	C. S. Middlemiss (30 N.).	7-4-15	Count K. Ohtani (39 F.).	
	6-6-88	A. P. Pennell (88 F.).	5-7-16	G. Sircar (29 N.).	30
	11-1-93	Sir Edward D. MacLagan (94 R.).	6-2-18	Johan van Manen (25 R.).	
5	31-7-93	G. P. Tate (23 N.).	3-4-18	B. Prashad (29 R.).	
	27-9-94	W. Vost (94 F.).	2-11-21	S. L. Hora (30 N.).	
	19-9-95	K. C. De (26 R.).	6-6-23	Sir A. Howard (30 N.).	
	5-12-00	J. W. A. Grieve (00 F.).	1-8-23	Kalipada Biswas (36 R.).	35
	6-2-01	J. Ph. Vogel (25 F.).	5-12-23	H. H. Lakshman Sen (24 N.).	
10	2-7-03	F. Doxey (28 R.).	7-5-24	B. Bhattacharya (24 N.).	
	1-6-04	G. H. Tipper (27 N.).	6-8-24	L. M. Davies (24 N.).	
	3-8-04	Sir Lewis L. Fermor (36 N.).	3-12-24	G. Roerich (28 F.).	
	28-9-04	H. E. Stapleton (26 R.).	6-6-27	B. D. Jain (28 R.).	40
	2-8-05	D. McCay (29 F.).	5-12-27	Sir Chhajuram Chow- dhury (27 R.).	
	3-1-06	J. A. Chapman (28 N.).	5-12-27	H. H. Sir Tashi Nam- gyal (27 N.).	
15	19-7-06	R. B. Whitehead (26 N.).		H. H. Kunzang Dech- hen (27 N.).	
	3-7-07	J. Coggin Brown (28 N.).	6-2-28	Sir D. Ezra (28 R.).	
	3-7-07	W. A. K. Christie (29 N.).	6-2-28	Sir Kaiser Shumsher Jung Bahadur Rana (28 N.).	45
	1-1-08	Sir U. N. Brahma- chari (27 R.).	2-7-28	N. Roerich (28 F.).	
	7-4-09	C. A. Bentley (30 N.).	5-11-28	W. Reinhart (28 F.).	
20	4-5-10	S. B. Dhavle (10 N.).	4-11-29	G. de P. Cotter (32 N.).	
	4-5-10	S. W. Kemp (29 F.).	3-3-30	H. S. Ashton (30 N.).	
	1-2-11	James Insch (28 R.).	5-1-31	P. Evans (31 N.).	50
	7-6-11	M. Hidayat Hosain (27 N.).	7-11-32	Suvarna Shumsher Jung Bahadur Rana (32 N.).	
	5-7-11	R. B. S. Sowell (28 N.).	6-2-33	J. C. Ghatak (33 R.).	
25	1-11-11	Kamaluddin Ahmad (24 N.).	5-2-34	H. M. Sale (34 N.).	
	5-3-13	J. L. Simonsen (19 N.).	5-3-34	H. H. Sir K. Singh (34 N.).	
	4-3-14	J. Bacot (14 F.).			
	5-8-14	B. C. Law (33 R.).			

SPECIAL ANNIVERSARY HONORARY MEMBERS.

Date of Election	(Science.)
15-1-34	PROF. ALBERT EINSTEIN, c/o Princeton University, New Jersey, U.S.A.
15-1-34	M. A. LACROIX, Secrétaire Perpetuel, Académie des Sciences, Paris.
15-1-34	SIR SYDNEY BURRARD, K.C.S.I., F.R.S., Foxhill, Salisbury Road, Farnborough, Hants, England.
15-1-34	DR. SIR SVEN HEDIN, Stockholm, Sweden.

(Letters.)

15-1-34	SIR JOHN MARSHALL, K.T., c/o Messrs. Grindlay & Co., Ltd., 54, Parliament Street, London.
15-1-34	DR. RABINDRA NATH TAGORE, Santiniketan, Bolpur, Birbhum.
15-1-34	PROF. TAHA HOSAIN, Cairo.
15-1-34	PROF. ARTHUR CHRISTENSEN, 62, Raadhustvej, Charlottenlund, Denmark.
15-1-34	DR. J. VAN KAN, President, Royal Society of Arts and Letters, Batavia, Java.
15-1-34	H.R.H. PRINCE DAMBONG RAJANUBHAB OF SIAM Siam.

ASSOCIATE MEMBERS.

Date of Election	
1-2-22	*PIERRE JOHANNIS, REV., S.J., B.LITT. (OXON), <i>Professor of Philosophy</i> . St. Xavier's College, 30, Park Street, Calcutta
1-2-22	*ANANTAKRISHNA SASTRI, MAHAMAHOPADHYAYA, VEDANTA-VISARADA, <i>Lecturer in Sanskrit</i> , Calcutta University. 32, College Square, Calcutta.
2-12-29	† SARAT CHANDRA ROY, RAI BAHADUR, M.A., B.L., <i>Editor</i> , 'Man in India'. Church Road, Ranchi.
1-1-34	L. DUGIN, <i>Consulate-General for France</i> , 15, Stephen Court, 18, Park Street, Calcutta.
6-3-39	REV. WILLIAM PETTIGREW, 54, Grinsdyke Road, Hatch End, Middlesex, England.
4-12-39	MISS MAUDE LINA WEST CLEGHORN, F.L.S., F.E.S. 43, Moulahat Road, Calcutta.

* Re-elected for a further period of five years on 5-4-1937 under Rule 2c.

† Re-elected for a further period of five years on 6-3-1939 under Rule 2c.

INSTITUTIONAL MEMBERS.

Date of Election.		
18-10-29	Legatum Warnerianum (Oriental Department), University of Leyden, Leyden, Holland.	
2-12-29	Adyar Library, Adyar, Madras S.	
4-5-31	Benares Hindu University Library, Benares.	
1-6-31	Ohtani University Library, Kyoto, Japan.	
7-12-31	Annamalai University Library, Annamalai-nagar, Chidambaram, S. India.	5
10-10-33	Allahabad University Library, Allahabad.	
30-4-34	Bombay University Library, Bombay.	
6-1-36	Islamia College, Peshawar.	
4-5-36	Patna College, Patna.	
7-12-36	Forest Research Institute, Dehra Dun.	10
4-1-37	Dacca University, Dacca.	
7-6-37	Agra University, Agra.	1

ORDINARY FELLOWS.

Date of Election		
2-2-10	Sir Prafulla Chandra Ray, KT., C.I.E., M.A., D.SC., F.N.I.	
2-2-10	Sir E. D. Ross, KT., C.I.E., PH.D.	
7-2-12	C. S. Middlemiss, C.I.E., B.A., F.G.S., F.R.S.	
5-2-13	J. Ph. Vogol, PH.D., LITT.D.	
5-2-13	S. W. Kemp, B.A., D.SC., F.R.S.	5
3-2-15	G. H. Tipper, M.A., F.G.S., M.INST.M.M.	
2-2-16	Sir Richard Burn, KT., C.S.I., I.C.S. (<i>retired</i>).	
2-2-16	Sir L. L. Fermor, KT., O.B.E., A.R.S.M., D.SC., F.G.S., M.INST.M.M., F.R.S., F.N.I.	
7-2-17	F. H. Gravely, D.SC., F.N.I.	
6-2-18	J. L. Simonsen, D.SC., F.I.C., F.R.S.	10
6-2-18	D. McCay, M.D., M.R.C.P., I.M.S.	
5-2-19	J. Coggin Brown, O.B.E., M.I.M.E., F.G.S.	
5-2-19	W. A. K. Christie, B.SC., PH.D., M.INST.M.M.	
5-2-19	D. R. Bhandarkar, M.A., PH.D.	
5-2-19	R. B. Seymour Sewell, C.I.E., M.A., SC.D., M.B.O.S., L.R.C.P., F.L.S., F.Z.S., F.R.S., F.N.I., I.M.S.	15
2-2-21	Sir U. N. Brahmachari, KT., M.A., PH.D., M.D., F.S.M.F., F.N.I.	
1-2-22	Ramaprasad Chanda, B.A.	
4-2-25	M. Hidayat Hossain, PH.D.	
7-2-27	Johan van Manen, C.I.E.	
6-2-28	H. E. Stapleton, M.A., D.LITT., B.SC., I.E.S. (<i>retired</i>).	20
6-2-28	B. Prashad, D.SC., F.Z.S., F.R.S.E., F.N.I.	
6-2-28	C. A. Bentley, C.I.E., M.B., D.P.H., D.T.M. & H.	
4-2-29	Sir Albert Howard, KT., C.I.E., M.A.	
4-2-29	J. H. Hutton, C.I.E., M.A., D.SC., I.C.S.	
4-2-29	Sir Edward D. MacLagan, K.O.S.I., K.C.I.E.	25
3-2-30	G. de P. Cotter, B.A., SC.D., M.INST.M.M., F.G.S.	
3-2-30	S. L. Hora, D.SC., F.Z.S., F.R.S.E., F.N.I.	
3-2-30	J. P. Mills, I.C.S., M.A., J.P., F.N.I.	
3-2-30	Meghnad Saha, D.SC., F.R.S., F.N.I.	
2-2-31	S. Krishnaswami Aiyangar, M.A., PH.D., F.R.HIST.S.	30

Date of Election	
2-2-31	R. N. Chopra, C.I.E., M.A., M.D., SC.D., F.N.I., I.M.S.
2-2-31	R. B. Whitehead, I.C.S. (<i>retired</i>).
1-2-32	J. Bacot.
6-2-33	Percy Brown, A.B.C.A.
35 6-2-33	Ordhendra Coomar Gangoly, B.A.
6-2-33	Ghulam Yazdani, M.A.
5-2-34	D. N. Wadia, M.A., B.SC., F.R.G.S., F.N.I.
3-2-36	Suniti Kumar Chatterji, M.A., D.LITT. (LOND.).
3-2-36	A. M. Heron, D.SC. (EDIN.), F.G.S., F.R.G.S., F.R.S.E., F.N.I.
40 3-2-36	Habib-ur-Rahman Shirwani.
15-2-37	K. N. Bahl, D.SC., D.PHIL., F.N.I.
15-2-37	K. N. Dikshit, M.A.
15-2-37	N. N. Law, M.A., B.L., PH.D.
15-2-37	J. N. Mukherjee, D.SC. (LOND.), F.C.S. (LOND.), F.N.I.
45 6-2-39	C. S. Fox, D.SC. (BIRM.), M.I.M.E., F.G.S., F.N.I.
6-2-39	B. S. Guha, M.A., PH.D. (HARVARD), F.N.I.

HONORARY FELLOWS.

Date of Election.	
5-2-96	CHARLES ROCKWELL LANMAN. 9, Farrar Street, Cambridge, Massachusetts, U.S.A.
2-3-04	SIR GEORGE ABRAHAM GRIERSON, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A., I.C.S. (<i>retired</i>). Rathfarnham, Camberley, Surrey, England.
5-8-15	SIR JOSEPH JOHN THOMSON, KT., O.M., M.A., SC.D., D.SC., LL.D., PH.D., F.R.S. Trinity College, Cambridge, England.
4-2-20	SIR AUREL STEIN, K.C.I.E., PH.D., D.LITT., D.SC., D.O.L., F.B.A. c/o Indian Institute, Oxford, England.
5 4-2-20	A. FOUCHER, D.LITT. Boulevard Raspail 286, Paris, XVI ^e .
4-2-20	SIR ARTHUR KEITH, M.D., F.R.C.S., LL.D., F.R.S.A. Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C. 2.
4-2-20	R. D. OLDHAM, F.R.S., F.G.S., F.R.G.S. 1, Broomfield Road, Kew, Surrey, England.
4-2-20	SIR DAVID PRAIN, KT., O.M.G., C.I.E., M.A., M.B., LL.D., F.R.S.E., F.R.S., F.L.S., F.Z.S., M.B.I.A., LT.-COL., I.M.S., <i>Late Superintendent, Royal Botanic Garden, Calcutta, and Director, Botanical Survey of India, and late Director, Royal Botanic Gardens, Kew.</i> Royal Botanic Gardens, Kew, Surrey, England.
4-2-20	SIR JOSEPH LARMOR, KT., M.P., M.A., D.SC., LL.D., D.C.L., F.R.S., F.R.A.S. St. John's College, Cambridge, England.
10 4-2-20	SIR JAMES FRAZER, KT., D.C.L., LL.D., LITT.D. Trinity College, Cambridge.
4-2-20	J. TAKAKUSU. Imperial University of Tokyo, Tokyo, Japan.
2-3-21	F. W. THOMAS, C.I.E., M.A., PH.D., <i>Boden Professor of Sanskrit, University of Oxford.</i> 161, Woodstock Road, Oxford, England.
7-6-22	SIR THOMAS HOLLAND, K.C.S.I., K.C.I.E., D.SC., F.R.S. <i>Principal, University of Edinburgh, Blackford Brae, Edinburgh.</i>
7-6-22	SIR LEONARD ROGERS, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.S., I.M.S. 24, Cavendish Square, London, 4.
15 7-1-25	STEN KONOW. Ethnographisk Museum, Oslo, Norway.
7-3-27	RT. HON ^{BLE} THE EARL OF LYTTON, P.C., G.C.S.I., G.C.I.E. Knebworth, Herts, England.
5-5-30	DR. R. ROBINSON, D.SC., F.R.S. The Dyson Perrins Laboratory, South Parks Road, Oxford, England.

Date of Election.		
7-2-38	RT. HON'BLE SIR JOHN ANDERSON, P.C., G.C.B., G.C.I.E., <i>Lord Privy Seal.</i> 11, Cheapstow Vilas, London, S.W.	
4-9-39	SIR S. RADHAKRISHNAN, KT., M.A., D.LITT., <i>George V Professor of Philosophy, Calcutta University.</i> P378, Southern Avenue, P.O. Kalighat, Calcutta.	
4-9-39	PROF. DR. HEINRICH LUDERS, Germany.	20
4-9-39	THE MOST HON. THE MARQUESS OF ZETLAND, P.C., G.C.S.I., G.C.I.E., <i>Secretary of State for India.</i> India Office, White Hall, London, S.W. 1.	
4-9-39	SIR JADUNATH SARKAR, KT., C.I.E., M.L.C., M.A., D.LITT. 169, Southern Avenue, Kalighat, Calcutta.	

CHANGES IN MEMBERSHIP.

LIST OF MEMBERS WHO HAVE BEEN ABSENT FROM INDIA THREE YEARS AND UPWARDS.*

*Rule 40.—After the lapse of three years from the date of a member leaving India, if no intimation of his wishes shall in the interval have been received by the Society, his name shall be removed from the List of Members.

The following members will be removed from the next Member List of the Society under the operation of the above rule :—

G. W. Douglas.
Dr. Otto Eberl.
R. S. Finlow.
Major D. E. C. Kenny.
H. W. Lyne.
Major R. L. Vance.
R. M. Statham.
Captain G. L. Mallam.
O. G. Matthias.
S. C. Chakravarti.

LOSS OF MEMBERS DURING 1939.

BY RETIREMENT.

Ordinary Members.

1. Shamsuddin Ahmad. (1937.)
2. Satyendra Kumar Basu. (1935.)
3. Vidhusekhara Bhattacharya. (1922.)
4. M. D. Chatterji. (1938.)
5. Gopaldas Chaudhury. (1914.)
6. Seth Krishen Deva. (1938.)
7. B. Dominguez. (1938.)
8. L. Brooke Edwards. (1929.)
9. J. W. McKay. (1926.)
10. Allard Merens. (1938.)
11. S. H. H. Rizvi. (1929.)
12. Edwart von Selzam. (1934.)
13. Hon. B. P. Singh Roy. (1926.)
14. Sir Alfred Henry Watson. (1927.)
15. Madan Gopal Daga. (1936.)
16. B. G. Mookerjee. (1936.)

BY DEATH.

Ordinary Members.

1. Rev. P. O. Bodding. (1893.)
2. Lord Brabourne. (1938.)
3. W. R. Criper. (1887.)
4. Sir Abdul Kerim Ghuznavi. (1926.)
5. Sir D. M. Hamilton. (1930.)

Honorary Fellow.

1. G. A. Boulenger. (1916.)

UNDER RULE 38.

1. Miss M. L. W. Cleghorn. (1915.)
2. Vinayek Lal Khanna. (1925.)
3. Kumar Krishna Kumar. (1928.)
4. F. M. Wright. (1927)

MEDALLISTS.

ELLIOTT GOLD MEDAL AND CASH.

RECIPIENTS.

- 1893 Chandra Kanta Basu.
- 1895 Yeti Bhusana Bhaduri.
- 1896 Jnan Saran Chakravarti.
- 1897 Sarasi Lal Sarkar.
- 1901 Sarasi Lal Sarkar.
- 1904 { Sarasi Lal Sarkar.
- Surendra Nath Maitra.
- 1907 Akshoy Kumar Mazumdar.
- 1911 { Jitendra Nath Rakshit.
- Jatindra Mohan Datta.
- Rasik Lal Datta.
- 1913 { Saradakanta Ganguly.
- Nagendra Chandra Nag.
- Nilratan Dhar.
- 1918 Bibhutibhushan Dutta.
- 1919 Jnanendra Chandra Ghosh.
- 1922 Abani Bhusan Datta.
- 1923 Bhailal M. Amin.
- 1926 Bidhu Bhusan Ray.
- 1927 Kalipada Biswas.
- 1931 T. C. N. Singh.
- 1932 P. N. Das-Gupta.
- 1933 Nirmal Kumar Sen.
- 1934 D. P. Roy Chowdhury.
- 1935 Kalipada Biswas.
- 1937 Pulin Behari Sarkar.

BARCLAY MEMORIAL MEDAL.

RECIPIENTS.

- 1901 E. Ernest Green.
- 1903 Sir Ronald Ross, KT., K.C.B., C.I.E., K.C.M.G., M.R.C.S., F.R.C.S.,
D.P.H., LL.D., D.S.C., M.D., F.R.S.
- 1905 D. D. Cunningham, C.I.E., F.R.S.
- 1907 A. W. Alcock, C.I.E., M.B., LL.D., F.R.S.
- 1909 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E.,
F.L.S., F.Z.S., M.B.I.A., F.R.S., LT.-COL., I.M.S.
- 1911 Carl Diener.
- 1913 William Glen Liston, C.I.E., M.D., D.P.H.
- 1915 J. S. Gamble, C.I.E., M.A., F.R.S.
- 1917 H. H. Godwin-Austen, F.R.S., F.Z.S., F.R.G.S.
- 1919 N. Annandale, C.I.E., D.S.C., C.M.Z.S., F.L.S., F.R.S., F.A.S.B.
- 1921 Sir Leonard Rogers, KT., C.I.E., M.D., B.S., F.R.C.P., F.R.C.S.,
F.R.S.
- 1923 Sir Samuel Christophers, KT., C.I.E., O.B.E., F.R.S., F.A.S.B., M.B.,
LT.-COL., I.M.S.

- 1925 J. Stephenson, C.I.E., B.Sc., M.B., CH.B., F.R.S., F.R.C.S., F.R.S.E.,
LT.-COL., I.M.S.
1927 S. W. Kemp, B.A., D.Sc., F.R.S., F.A.S.B.
1929 Sir Albert Howard, KT., C.I.E., M.A., F.A.S.B.
1931 R. B. Seymour Sewell, C.I.E., M.A., SC.D. (CANTAB.), M.R.C.S.,
L.B.C.P., F.Z.S., F.L.S., F.R.A.S.B., F.R.S., LT.-COL., I.M.S.
1933 R. Row, O.B.E., D.Sc.
1935 B. Sahni, M.A., SC.D. (CANTAB.), D.Sc., F.G.S., F.R.A.S.B.
1937 R. N. Chopra, C.I.E., M.A., M.D. (CANTAB.), F.R.A.S.B., BT.-COL.,
I.M.S.

SIR WILLIAM JONES MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Sir Malcolm Watson, KT., LL.D. (HON.), M.D., C.M., D.P.H.
1928 Sir George A. Grierson, K.C.I.E., O.M., PH.D., D.LITT., LL.D., F.B.A.
(HON.), F.R.A.S.B., I.C.S. (*retired*).
1930 Dr. Felix H. D'Herelle.
1932 Dr. C. Snouck Hurgronje.
1934 Rai Sir Upendra Nath Brahmachari, Bahadur, KT., M.A., M.D.,
PH.D., F.S.M.F., F.R.A.S.B.
1937 Prof. Dr. A. J. Wensinck.

ANNANDALE MEMORIAL MEDAL.

RECIPIENTS.

- 1927 Fritz Sarasin.
1930 Dr. Charles Gabriel Seligman, M.D., F.R.C.P., F.R.S.
1933 Dr. Eugène Dubois.
1936 Dr. John Henry Hutton, C.I.E., I.C.S. (*retired*), M.A., D.Sc., F.R.A.S.B.

JOY GOBIND LAW MEMORIAL MEDAL.

RECIPIENTS.

- 1929 Max Weber.
1932 Dr. Ernst J. O. Hartert, PH.D.
1935 Prof. Leo Semenowitch Berg.
1938 Dr. Baini Prashad, D.Sc., F.Z.S., F.R.S.E., F.R.A.S.B.

PAUL JOHANNES BRÜHL MEMORIAL MEDAL.

RECIPIENTS.

- 1931 Rev. Ethelbert Blatter, S.J.
1934 Isaac Henry Burkill, M.A.
1938 Sir David Prain, KT., C.I.E., C.M.G., M.A., M.B., LL.D., F.R.S.E., F.L.S.,
F.Z.S., M.B.I.A., F.R.S., LT.-COL., I.M.S.

INDIAN SCIENCE CONGRESS MEDAL, CALCUTTA.

RECIPIENTS.

- 1935 Meghnad Saha, D.Sc., F.R.S., F.R.A.S.B.
1938 Sir James H. Jeans, D.Sc., SC.D., LL.D., F.I.C., F.R.S.

PROCEEDINGS OF THE ORDINARY MONTHLY MEETINGS, 1939.

JANUARY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 2nd January, 1939, at 5-30 P.M.

PRESENT.

SHAMSU'L 'ULAMĀ MAULAVI M. HIDAYAT HOSAIN, KHAN BAHADUR, Ph.D., F.R.A.S.B., Joint Philological Secretary, in the Chair.

Members :

Chakravarti, Prof. C.
Chatterjee, Mr. Manomohan
Dugin, Mr. L. S.
Ghosh, Mr. J.

Heron, Dr. A. M.
Klebe-Brandt, Dr. A.
Manen, Mr. Johan van
and others.

Visitors :

Chaudhuri, Dr. J. B.
Das-Gupta, Mr. C. C.

Martyn, Mr. P. D.
Sen-Gupta, Mr. P. C.

The minutes of the last meeting were read and confirmed.

The General Secretary announced receipt of the following ten presentations of books, etc., which had been kept on the table for inspection.

(1-2) From Ananta Krishna Shastri—'Vedanta-Vakksamani', 2 Pts.

(3) From French Consulate General, Calcutta—'Documents Diplomatiques Francais, Ser. 2 and 8'.

(4) From Government of India—'Calendar of the Court minutes of East India Company, 1677-79'.

(5-6) From Royal Asiatic Society, London—'The Rise of the Ottoman Empire, and Three Persian Dialects'.

(7-8) From Government of India—'Further Excavations at Mahenzo Daro', 2 Vols.

(9) From Government Sanskrit College, Benares—Catalogue of Sanskrit MSS., 1918-30.

(10) From R. P. Oliver—'Mricchakatika, the little clay cart'.

The following candidates were balloted for for election as Ordinary Members:—

(1) Bose, Sudhansu Mohan, M.A., LL.B. (Cantab.), Barrister-at-Law, Member, Public Service Commission, Bengal, 3, Federation Street, P.O. Amherst Street, Calcutta.

Proposer: B. N. Chopra.

Seconder: B. S. Guha.

(2) *Ramachandran, T. N., M.A., Offg. Superintendent, Archaeological Section, Indian Museum, 27, Chowringhee, Calcutta.*

Proposer: B. S. Guha.

Seconder: B. N. Chopra.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(22) Miss Dr. Grace Stapleton (An Ordinary Member, 1926).

(23) J. W. Holme (An Ordinary Member, 1932).

(24) Mr. Justice R. E. Jack, Kt. (An Ordinary Member, 1935).

(25) M. S. Krishnan (An Ordinary Member, 1933).

(26) J. McPherson (An Ordinary Member, 1924).

(27) Max Staub (An Ordinary Member, 1925).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following papers were read:—

1. P. C. SEN-GUPTA.—*Solstice Days in Vedic Literature.*

The paper consists of two parts in the first of which the author has shown that the Vedic Hindus knew a method for finding the solstice day of any year. In the second half, he has established that there was a standard month of Māgha in the Hindu statements of the solstice days in successive ages, and constructed a chronological ladder extending from 3550 B.C. to 2100 B.C. during which the class of Sanskrit literature known as the Brāhmaṇas was developed.

2. P. C. SEN-GUPTA.—*Bhārata Battle Traditions.*

There are three traditions as to the dates of the Bhārata battle, viz. (1) the Āryabhaṭa tradition, which says that the battle was fought in 3102 B.C. at the beginning of the astronomical Kaliyuga; (2) the Vṛddha-Garga tradition which says that the Yudhiṣṭhira era began from 2449 B.C., and (3) the Puranic tradition or traditions, according to which the interval of time between the birth of Parīkṣit and the accession of Mahāpadma Nanda was either 1015, 1050, 1115 or even 1500 years. The author of this paper has already attempted to prove (JRASB, Vol. III, No. 1) that the very first year of the Yudhiṣṭhira era, i.e. 2449 B.C. was the year of the Bhārata battle. In the present paper, he has examined the other two traditions and has argued that both of them are wrong. The paper is divided into two parts in which the Āryabhaṭa tradition and the Puranic evidences are severally discussed.

3. P. C. SEN-GUPTA.—*Madhu-Vidyā or the Science of Spring.*

In this paper, the author attempts to interpret the Madhu-Vidyā, or the Science of Spring of the Vedic Hindus. 'Madhu'

and 'Mādhava' were the two months of spring of the Vedic tropical year, and the author thinks that there is some justification for interpreting 'Madhu-Vidyā' as equivalent to 'Science of Spring'.

The author seeks to establish that the civilization of the Vedic Hindus was earlier than that of the Indus valley as evidenced by the remains at Mohenjo-Daro.

4. P. C. SEN-GUPTA.—*When Indra became Maghavān.*

The various epithets of Indra. Indra the god of the summer solstice. Transition to the aspect of killer of Vṛtra. Transition to the aspect of Maghavān, the owner of Maghā, a constellation in Leo. Conclusion. Indra as the shedder of rain became Maghavān when he began to function in connection with the heliacal rising of Maghā. Calculations and diagram. The epithets of Śatakratu and Balabhit.

5. ROMA CHAUDHURI.—*English translation of Nimbārka's Commentary on the Brahmasūtras (Vedānta-pārijāta-Saurabha) and Śrīnivāsa's Commentary on the same (Vedānta-Kaustubha).*

These translations give an English rendering of the commentaries on the Brahmasūtras by Nimbārka and his immediate disciple, Śrīnivāsa. Thus far no English translation of the two works has been attempted, though urgently required in view of the fact that Nimbārka's commentary is one of the five well-known commentaries representing five different schools of the Vedānta. Śrīnivāsa's commentary is not, as generally believed, a sub-commentary on Nimbārka but only elucidates admirably the points of Nimbārka by means of suitable arguments and quotations. Though the translations have been made as literal as possible, it has been attempted to make them at the same time simple and intelligible. The texts used are the Benares editions. Differences of readings in other editions have been given in foot-notes. Nimbārka's readings and interpretations have been compared with those of Śaṅkara. The differences are instructive. Only points of difference have been noted, not the points of agreement.

The following exhibits were shown and commented upon:—

1. A. M. HERON.—*Mica with inclusions.*

Muscovite with inclusions of garnet and interfoliar quartz, albite, hæmatite and rutile altering into titanomorphite.

Garnet is flattened parallel to a trapezohedral face (211) which is also parallel to the cleavageplane of the muscovite. Traces of parting planes parallel to this direction are noted in the garnet. It is of almandine variety.

Quartz.—Clear and transparent, often showing pyramidal faces—flattened—the C-axis being always parallel to the cleavage of the mica.

Also forms a large proportion of the milky white granular portion.

Albite.—A small part of the milky white portion, the rest being quartz.

Thin films of quartz-albite aggregates occur along the planes of foliation of the mica.

Hæmatite, rutile and titanomorphite.—Reddish flakes of hæmatite in linear and dendritic aggregates, often branching at angles of 60° from the main direction. There are also similar aggregates of rutile, often represented by its alteration-product, titanomorphite, and also arranged in parallel directions which follow more or less the directions of the percussion figure.

2. CHINTAHARAN CHAKRAVARTI.—*Manuscripts of a Tantra Work on the Cult of Pañcānana.*

The cult of Pañcānana, the Guardian Deity of children, is immensely popular among the women-folk of West Bengal, who worship the deity for the protection and welfare of their young ones. Almost every village has one or more separate places of worship assigned to this deity. The known literature on this cult, unlike other folk-cults, is, however, extremely meagre. The Royal Asiatic Society of Bengal, fortunately, is in possession of three manuscripts—perhaps all which are known—of a Tantric text called the *Bṛhadrudrayāmala*, sections of which deal exclusively with this cult. These sections, in the manner of *maṅgala-kāvya*s of medieval Bengal, one of which may not unlikely have been the basis of the Sanskrit version given here, record legends concerning the powers of the deity in causing destruction when offended and bringing prosperity when duly worshipped. The manuscripts, which were exhibited to the meeting, are especially interesting in view of the fact that Sanskrit works pertaining to folk-cults are rare, if not totally unknown.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.

The Chairman announced that the Annual Meeting of the Society would be held on Monday, the 6th February, 1939, and invited the members present to communicate with the General Secretary the names and addresses of non-members to whom they wished invitations to be issued.

FEBRUARY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th February, 1939, immediately after the termination of the Annual Meeting for the election of Ordinary Members and the transaction of business.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Brahmachari, Sir U. N.

Brown, Mr. Percy

Chakravarti, Prof. C.

Groth, Mr. E. M.

Haq, Mr. M. Mahfuz-ul

Mahtab, Maharajadhiraja Sir B. C.

Manen, Mr. Johan van

Pasricha, Major C. L.

White, Mr. J. C.

The minutes of the last meeting were read and confirmed.

The General Secretary announced that the presentations of books, etc., received during the last month would be exhibited at the next Monthly Meeting.

The following candidates were balloted for for election as Ordinary Members:—

(3) *Basu, Jnanendra Nath*, Vidyalkar, Member, Benares Hindu University Court, Fellow, Theosophical Society, Landholder, Director, Messrs. Thacker Spink & Co., 9, Park Lane, Calcutta.

Proposer: Sushil Chandra Ghosh.

Seconder: M. Hidayat Hossain.

(4) *Simeons, Albert Theodore William*, M.D. (Heidelberg), Physician, Khatau Mansion, Cooperage, Bombay.

Proposer: N. Barwell.

Seconder: Johan van Manen.

(5) *Chakravarti, Rash Mohan*, Ph.B., Puranratna, Vidyavinode, Superintendent, Rammala Chhatra Vas, Comilla, Bengal.

Proposer: M. Hidayat Hossain.

Seconder: Suniti Kumar Chatterji.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

(1) W. R. Cripser (An Ordinary Member, 1887).

(2) Rev. P. O. Bodding (An Ordinary Member, 1893, Ordinary Fellow, 1926).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(1) William Pettigrew (An Ordinary Member, 1930).

(2) Shams-ud-Din Ahmad (An Ordinary Member, 1937).

(3) Seth Krishna Deva (An Ordinary Member, 1938).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 2(c), the General Secretary announced that the Council recommended for election for a period of five years the following gentleman as an Associate Member of the Society:—

1. Rev. William Pettigrew.

The General Secretary stated the grounds on which the recommendation had been made.

In accordance with Rule 2(c), the General Secretary also announced that the Council recommended for re-election for a further period of five years the following gentlemen as Associate Members of the Society:—

1. Rai Bahadur Sarat Chandra Roy.
2. L. S. Dugin.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that all the candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



MARCH.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th March, 1939, at 5-30 P.M.

PRESENT.

SHAMSU'L 'ULAMĀ' MAULAVI M. HIDAYAT HOSAIN, KHAN BAHADUR, Ph.D., F.R.A.S.B., Joint Philological Secretary, in the Chair.

Members :

Bagchi, K. N.
Biswas, Dr. K.
Bose, Prof. M. M.
Brown, Mr. Percy
Chakravarti, Prof. C.
Chatterjee, Dr. Manomohan
Dugin, Mr. L. S.

Eekhout, Mr. P. J.
Haq, Mr. M. Mahfuz-ul
Hobbs, Major H.
Manen, Mr. Johan van
Mukherjee, Mr. P. L.
Prasahad, Dr. B.
and others.

Visitor :

Das-Gupta, Mr. A.

The minutes of the last meeting were read and confirmed.

The General Secretary announced receipt of the following twenty-five presentations of books, etc., which had been kept on the table for inspection.

- (1-2) From Dr. N. N. Law—'Desh-bidesher Rastriya Kabhoma, 2 vols.'.
- (3) From Fondation de Goije, Leyden—'La Penineuk Iberique'.
- (4) " University of Dacca—'Ramayana, Adikanda'.
- (5) " Royal Asiatic Society, London—'Old Iranian Calendars'.
- (6) " M. Madrolle, Paris—'Siam, from Penang to Aagkor'.
- (7) " Swami B. H. Bon—'The Geeta'.
- (8-9) From Upsala University—'Die Griechisch-Arabische' and 'Die Jesuspage im Neuzeitlichen, etc.'.
- (10) From Pandit Hemraj Sharma—'Kashyana Samhita'.
- (11) From Government Oriental Library—'Descriptive Catalogue, Vol. 1'.
- (12) From Director of Public Instruction, Poona—'Bharadvaja Siksha'.
- (13) From Secretary of State for India—'India Office Library Catalogue, Vol. 2, pt. 1'.
- (14) From Department of Education—'Calendar of Persian correspondence, Vol. 6'.
- (15) From Madras Government Oriental Library—'Alphabetical Index of Sanskrit MSS.'.
- (16) From Archaeological Survey of India—'Rajagriha'.
- (17-23) From Tanjore Saraswati Mahal Library—'Descriptive Catalogue of Sanskrit MSS., Vols. 13 to 19'.
- (24-25) From S. N. Das Gupta, Esq.—'Sadbaidyakula-Chaudirka, Printed and MSS., 2 vols.'.

The General Secretary also drew special attention to a collection of 28 volumes on Islamic subjects presented to the Society by one of its oldest members, Mr. G. P. Tate, Bareilly.

The General Secretary announced that the following candidates would be balloted for for election as Ordinary Members:—

(6) *Culshaw, The Rev. Wesley James*, Methodist Minister, P.O. Serenga, Bankura.

Proposer: F. F. Rossetti.

Seconder: A. N. Das.

(7) *Sinclair, Gregg M.*, Director, Oriental Inst., University of Hawaii, Honolulu, Hawaii, U.S.A.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

(8) *Mukerjee, S. C.*, Retired Member of the Indian Civil Service, 25/1, Rowland Road, Calcutta.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

(9) *Meyer, Miss Sally*, M.A., Professor of Botany, Victoria Institution, 11, Sudder Street, Calcutta.

Proposer: Sir David Ezra.

Seconder: K. Biswas.

The General Secretary reported the following loss of membership, since the previous meeting, by death:—

- (3) H.E. Lord Brabourne (Patron, Ordinary Member, 1938).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

- (4) S. H. H. Rizvi (An Ordinary Member, 1929).
- (5) J. W. McKay (An Ordinary Member, 1926).
- (6) V. Bhattacharya (An Ordinary Member, 1922).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary announced the composition of various Standing Committees of the Society to be as follows:—

Finance Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Lt.-Col. N. Barwell.	
Dr. Baini Prashad.	
Dr. J. N. Mukherjee.	
Sir U. N. Brahmachari.	
Dr. S. P. Mookherjee.	
Dr. S. C. Law.	
Dr. C. S. Fox.	

Library Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Philological Secretary.	
Jt. Philological Secretary.	
Physical Science Secretary.	
Biological Secretary.	
Anthropological Secretary.	
Medical Secretary.	
Library Secretary.	

Publication Committee :

President	} <i>Ex-officio.</i>
General Secretary	
Treasurer	
Philological Secretary.	
Jt. Philological Secretary.	
Physical Science Secretary.	
Biological Secretary.	
Anthropological Secretary.	
Medical Secretary.	
Library Secretary.	

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members would be suspended as defaulters within the Society's building for the period of one month to be removed from the Society's registers for non-payment unless the amount due be paid before the next Ordinary Monthly Meeting:—

1. Miss M. L. C. Cleghorn.
2. Vinayak Lal Khanna.

3. Count Kozui Ohtani.
4. Kumar Krishna Kumar.
5. F. M. Wright.

In accordance with Rule 2(c), the Chairman called for a ballot for the election as an Associate Member for a period of five years of:—

1. Rev. William Pettigrew.

proposed for election in the last Ordinary Monthly Meeting.

In accordance with Rule 2(c), the Chairman called for a ballot for the re-election as Associate Members for a further period of five years of:—

1. Rai Bahadur Sarat Chandra Roy.
2. L. S. Dugin.

proposed for re-election in the last Ordinary Monthly Meeting.

The Chairman announced the results of the ballots for the election of Ordinary Members and Associate Members and declared that all candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.

After the transaction of the above business, on the proposal of the Chairman, the meeting passed the following vote of condolence with the Lady Brabourne on the demise of the Society's late Patron and Member, the Right Hon'ble Lord Brabourne, G.C.S.I., G.C.I.E., M.C.

'This General Meeting of the Royal Asiatic Society of Bengal places on record its sense of deep grief at the death of its late Member and Patron, Lord Brabourne,

It expresses its high appreciation of his gifts, attainments, and character which elicited unstinted respect and affection wherever he went,

It testifies to the Universal recognition of the outstanding manner in which he fulfilled high and responsible duties in the service of both India and the Empire,

It commemorates with gratitude the whole-hearted support given by him to this Society as well as to scholarships generally,

And it conveys its heartfelt condolences to the Lady Brabourne in the irreparable loss of this great and good man.'

Passed unanimously, all present standing.

After the passing of the resolution the meeting was adjourned.



APRIL.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 3rd April, 1939, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Bose, Mr. M. M.	Hosain, Dr. H.
Chakravarti, Prof. C.	Manen, Mr. Johan van
Hobbs, Major H.	Neogi, Dr. P.
Hora, Dr. S. L.	Olpadvala, Mr. E. S.

The minutes of the last meeting were read and confirmed.

The General Secretary announced receipt of the following sixteen presentations of books, etc., which had been placed on the table for inspection:—

(1-11) From Madras Government Oriental MSS. Library—'Descrip. Cat. of Telugu MSS., Vol. 345: Triennial Cat. of MSS., Vol. 4, pt. 3, Vol. 5, pt. 2 and Vol. 7, pt. 1; Descrip. Cat. of Kanarese MSS.; Descrip. Cat. of Sans. MSS., Vol. 27; Alphabetical Index of Telugu MSS., Alphabetical Index of Tamil MSS. and Brahmasiddhi'.

(12) From Mysore Govt. Oriental Library—'Tarka Tandavam, Vol. 3'.

(13) „ Government of India—'Library of the India Office'.

(14) „ Colombo Museum—'Catalogue of Palm leaf MSS., Vol. 1'.

(15) „ Royal Asiatic Society of Bengal—'Proc. 25th Indian Science Congress'.

(16) From Local French Consul General—'Documente Di Tomatiques Francaise Ser. 1, T. 8'.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation:—

(7) S. K. Basu (An Ordinary Member, 1935).

(8) Sir B. P. Singh-Roy (An Ordinary Member, 1936).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 38, the General Secretary announced that the names of the following Ordinary Members, who had, since the last monthly meeting, been suspended as defaulters within the Society's building, had now been removed as defaulters from the Society's registers for non-payment of dues:—

1. Miss M. L. C. Cleghorn.
2. Vinayak Lal Khanna.
3. Count Kozui Ohtani.
4. Kumar Krishna Kumar.
5. F. M. Wright.

The following paper, in the absence of the author, was taken as read:—

1. M. L. ROONWAL.—*Some recent advances in Insect Embryology, with a complete Bibliography on the subject.*

A brief historical sketch of the development of insect embryology from olden times until to-day is given. This is followed by an account of some of the recent advances on the subject, the more important items dealt with being: the theory of multi-phased gastrulation; the 7-segmental nature of the insect head; the function of the pleuropodia; the mechanism of blastokinesis; the classification of insectan genital cells; and finally, the origin of some of the body sclerites, viz., the labium and the pleuron. Some embryological problems whose study is likely to give fruitful results are described. A complete and classified bibliography of insect embryology is appended.

The following exhibit was shown and commented upon:—

1. S. L. HORA.—*Two new Exhibits in the Fish Gallery of the Indian Museum.*

The three empty spaces in the corners of the Fish Gallery are being utilized for exhibition purposes by covering them up with panels.

On one of these panels, which will be exhibited, the genealogical history of fishes is depicted in an ascending series of zones, corresponding to the successive geologic ages of the earth's history, and based on the study of fossil fishes and the evidence afforded by the comparative anatomy, development and distribution of the existing forms. The remarkable antiquity of the major subdivisions of fishes is illustrated by the sharks and rays which go as far back as the Silurian Age, several hundred million years ago. The 'Old Ganoids', the 'Lobe-finned Ganoids' and the 'Lung-fishes' evolved from the primitive forms sometime in the Devonian Age. At about the same time as the Amphibians or the first air-breathing vertebrates originated from piscine ancestors. The most dominant class of the present-day fishes—the Teleosts or Bony-fishes—are comparatively very recent: in fact, the Carps and Catfishes originated as late as the Eocene period.

The genealogical tree of fishes is a copy of a similar exhibit in the American Museum of Natural History.

On the second panel is represented an outline classification of the main groups of fishes and one representative form of each group is illustrated.

The panel for the third corner is under preparation and will illustrate the main types of fish used in the control of mosquitoes.

The exhibits are provided with explanatory labels in English and Bengali.

The following communication was made:—

1. CHINTAHARAN CHAKRAVARTI.—*Society's collection of Manuscripts of Works on the Science of Warfare in old India.*

References to the science in old Indian literature. Comparative paucity of old and exclusive literature on the subject. Meagre information about the works that have survived necessitating a careful analysis of the manuscripts available in different Manuscripts Libraries.

Manuscripts belonging to the Society roughly fall under two classes:—

- I. Manuscripts of little-known works on *Dhanurveda*, or the Science of Archery proper.
- II. Manuscripts of more or less familiar astrological and magical works, generally associated with the Tantras, which describe good and bad omens, prescribe magical rites and charms, and ascertain days believed to be auspicious for marching against the enemy.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



MAY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 1st May, 1939, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Agharkar, Dr. S. P.
Biswas, Dr. K.
Chakravarti, Prof. C.
Das-Gupta, Mr. C. C.
Fermor, Sir L. L.
Guha, Dr. B. S.

Heron, Dr. A. M.
Hobbs, Major H.
Hosain, Dr. M. H.
Manen, Mr. Johan van
Meyer, Miss S.
Paaricha, Major C. L.

Prashad, Dr. B.

Visitors :

Datta, Mr. J. M.

Mitter, Mr. G.

The minutes of the last meeting were read and confirmed.

The Chairman announced that, as a special arrangement made by the Council in its meeting held on the 24th April, 1939, Dr. B. S. Guha would be the Acting General Secretary of the Society vice Mr. Johan van Manen, who had been deputed on special duty, and Dr. Baini Prashad would act as Honorary

Treasurer *vice* Dr. B. S. Guha, who had been acting as Honorary Treasurer in place of Mr. Percy Brown who had gone on leave.

The Acting General Secretary reported receipt of the following ten presentations of books, etc., which had been placed on the table for inspection:—

- (1) From Dept. of Public Instruction, Bombay—'Peterson's second selection of Hymns from the R̥gveda'.
- (2) From Pandita Kshama Row—'Sankarajivanakhyanam'.
- (3) „ Government of India—'Voyage of Nicholas Downton'.
- (4) „ Government of Bengal—'Protozoa: Sporozoa'.
- (5) „ Indian Press, Allahabad—'Tarikh Badshah Begum'.
- (6) „ University of Calcutta—'On the fundamentals of analysis'.
- (7) „ The Director of Public Instruction, Poona—'Tarikh-i-Sind'.
- (8) „ H.E.H. Nizam's Dominion—'Daft-e-Divani'.
- (9-10) From Archaeological Dept., Nizam's Dominion—'Annual Reports of Archaeological Depts., 1934-35 and 1935-36'.

The Acting General Secretary announced that the following candidates would be balloted for for election as Ordinary Members:—

- (10) *Parker, E.*, Capt., I.A. (Retd.), c/o Remington Rand Inc., 3, Council House Street, Calcutta.

Proposer: Johan van Manen.

Seconder: Percy Brown.

- (11) *Ayrton, Shavuz Munchershaw*, Assistant, Messrs. Shaw Wallace & Co., Madan Mansions, 275-c, Bowbazar Street, Calcutta.

Proposer: E. S. Olpadvala.

Seconder: Sir David Ezra.

The Acting General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The Acting General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The Acting General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The Acting General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The following papers were read:—

1. S. T. MOSES.—*The Vaghers of Okhamandal*.

The Vaghers are among the earliest inhabitants of the Okhamandal District in the Baroda State. The author, on assuming charge as the Director of Fisheries of the State, first surveyed this District and, among its inhabitants, the historic and interesting community of Vaghers early attracted his attention. During the Pearl Fishery, which was organized more as a relief work for the Vaghers, he was brought into frequent and intimate contact with them. In this paper, he has embodied the information collected about them and the results of his observations.

Introduction—The caste and its traditional origin: (a) from the sweat of god, (b) from the hole where Kashasura was destroyed, and (c) from the sweat of Krishna, to punish Arjuna. Really they are the aboriginal Kshatriyas with a mixture of Rajput races. The name Vagher and its derivations: (a) uncomplimentary name because of tigerlike characteristics, and (b) cooled a god when on a visit to hot Okha and so got the name.

Occupations—Fishing, pearlfishing, piracy and outlawry, agriculture and as coolies, cartmen and guides. Salami tenure in agriculture. Waterdivining and posthumous children. Their food, drink, etc. Dress. Games and entertainments. Speech. Religion. Marriage, divorce, etc.

Physical characteristics—Cranial and nasal measurements.

2. JATINDRA MOHAN DATTA.—*A new and rare Type of Mughal-Pathan found near Calcutta.*

In this paper, the author has described a rare type of sedentary game of Mughal-Pathan, the details of which were collected by him from the village of Dakhineswar and the adjoining locality on the east bank of the Bhagirathi, about 7 miles north of Calcutta.

Description of the game with the help of the standard diagram of Mughal-Pathan.

The following communications were made:—

1. K. BISWAS.—*The Rôle of the Common Algal Communities of the River Hooghly on the Drinking Water of Calcutta.*

The physical, the chemical, and particularly, the biological factors of the river Hooghly, are not at all favourable to sustaining a large number of species of algæ or algal communities. The growth, however, of a few species of the algal communities along the banks of the river within the tidal zone is, by no means, less luxuriant. Four communities of algal vegetation in this portion of the river Ganges can be distinguished:—

- (1) The crustaceous or incrusting community of Caloglossa Leprieurii.
- (2) The struggling community of Cladophora—Rhizoclonium.
- (3) Epiphytic community of Diatoms—Melosira—Terpsinoe.
- (4) Plankton community of (a) Diatom—Synedra—Rhopalodia—Coccinodiscus—Cyclotella, (b) blue-green and green fresh water algæ.

It is the plankton community that plays an important part in the biology of the presettling tanks and filter-beds which form the source of drinking water of Calcutta. Some of the fresh water algæ occurring in the filter-beds in proper proportion,

aid in the purification of the water. Some algæ, on the other hand, act as harmful elements to the filter-beds. Whereas some other species—occurring in crowded masses—choke up the filter-beds within the course of a month during hot days. These are then likely to damage the vital layer of the filter-beds due to their fragmentation and association with the lower animals. At this stage of their life-history these algæ deteriorate the quality of the water of the filter-beds leading to offensive vegetable odour in the drinking water. Again, the water thus surcharged with organic matter becomes a favourable medium for the growth of iron-bacteria during the passage of the water through the underground pipes. These anaerobic iron bacteria when dislodged from the walls of the pipes sometimes come out of the tap water as brownish scum which can be observed in a glass of water after sedimentation.

The pollution of the river Hooghly is so much that they may gradually prove detrimental to organic life and thus complicate the problem of the supply of drinking water and fishes to Calcutta and other parts of India. The delicious Hilsha fish of the river Hooghly are getting less and less every year and may disappear altogether, like Salmon and Trout from the Thames. It is therefore high time that a water pollution research board, like that of England, consisting of a chemist, physicist, botanist, zoologist and engineer, should be formed to carry on researches on water pollution, in its various aspects.

2. B. PRASHAD.—*A historical Note about the Indo-Brahm or the Siwalik River.*

As a result of a study of the Panjab Oil-Belt Sir Edwin Pascoe of the Geological Survey of India published a paper in 1920 in the *Quarterly Journal of the Geological Society of London* in which he postulated the occurrence during the Tertiaries of a westwardly flowing river, the Indo-Brahm, the headwaters of which corresponded with that of the Brahmaputra. Through Assam the river flowed westwards and north-westwards along the foot of the Himalayas as far as North-West Punjab, and then turning southwards along a course not very different from that of the modern Indus, it emptied itself into the Arabian Sea. Almost simultaneously Dr. G. E. Pilgrim of the Geological Survey, from a study of the Siwalik Conglomerates, communicated a paper to the Asiatic Society in which he suggested that there was a single westwardly flowing river, the Siwalik River, in place of the Indus, the Ganges and the Brahmaputra River Systems which served for the drainage both of the eastern and western Himalayas. Both the authors did not refer to the earlier communications by Oldham (1894) and Kobelt (1899) in which similar views had been put forward.

The author gave a brief historical review of the earlier literature on the subject and discussed the zoological evidence

which has been adduced in support of the hypothesis of such a river system.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the two candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.



JUNE.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 5th June, 1939, at 5-30 P.M.

PRESENT.

MAJOR HENRY HOBBS, V.D., Ordinary Member, in the Chair.

Members :

Bose, Mr. M. M.	Eekhout, Mr. P. J.
Chakravarti, Prof. C.	Guha, Dr. B. S.
Chatterji, Prof. B. R.	Jenkins, Dr. W. S.
Das-Gupta, Mr. C. C.	Mahtab, Maharaj Kumar A. C.
	and others.

Visitors :

Chatterji, Mr. B. K.	Mitra, Mr. A. K.
Macfarlane, Dr. E. W.	Mitra, Mr. D. N.
	Mookerjee, Mr. R. R.

The minutes of the last meeting were read and confirmed.

The Acting General Secretary reported receipt of the following thirty-four presentations of books, etc., including twenty-three books from the Afghan Academy, Kabul, which had been placed on the table for inspection:—

- (1) From The Swedish Academy of Sciences—Les Prix Nobel, 1937.
- (2) „ Ganapati Sircar, Esq.—Haraprasad Jivani.
- (3) „ Srinath Sen, Esq.—Truths of Language.
- (4) „ T. E. Notila, Esq.—Syrjanische Chrestomathie.
- (5) „ David Hooper, Esq.—Useful Plants and Drugs from Iran and Iraq.
- (6) „ University of Mysore—'Catalogue of Books in the library'.
- (7-9) „ P. K. Acharya, Esq.—'Manasara on Architecture and Sculpture', 'Architecture on Manasara', 'Architecture on Manasara, illustrating'.
- (10-11) From Parsee Panchayet, Bombay—'Coins of Tabaristan', 'Sind's changing Map'.
- (12-34) From The Afghan Academy, Kabul—23 publications.

The Acting General Secretary also brought to the notice of the Meeting the following presentations of books, etc., received by the Society some time ago:—

- (1) From The University of Berlin, Germany—807 pamphlets.
- (2) „ Col. Sewell when he left India—57 volumes of books.
- (3) „ Deutsch-Auslandischer Buchtausch—71 packets.

The Acting General Secretary announced that the following two candidates would be balloted for for election as Ordinary Members:—

(12) *Ali, S. Shamsar*, Insurance Underwriter, 3, Bright Street, Ballygunge, Calcutta.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

(13) *Nag, Kalidas*, M.A. (Cal.), D.Litt. (Paris), Lecturer, Calcutta University, 283, Park Circus, Calcutta.

Proposer: B. S. Guha.

Seconder: B. N. Chopra.

The Acting General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The Acting General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The Acting General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The Acting General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The Acting General Secretary reported that the Council, since the last Ordinary Monthly Meeting decided to rescind the resolution concerning the removal of the name of Count Kozui Ohtani, from the member-list of the Society under the operation of Rule 38; the name of Count Ohtani has now been re-instated as an Ordinary Member.

The following exhibits were shown and commented upon:—

1. EILEEN W. E. MACFARLANE.—*Marriage Symbols from the West Coast of India. Exhibit of silver replicas of talis of 22 communities from Cochin.*

At weddings on the West Coast a small gold ornament called a *tali*, strung on a cotton thread, is tied around the bride's neck. This is worn until the husband dies. The design of the *tali* varies with the caste. The form most frequently met with among Malayalees is the *Alila tali* or Peepul leaf design. A conventionalized leaf of the holy *Ficus religiosa* L. forms the *tali* motif in eight of the castes in this collection, including the Syrian Christians. There are various other designs including the snake, coin and bead represented. The Goldsmith *tali* seems to be a minute hammer head. That of the Cochin Jews may symbolize the dome on the ruined temple at Jerusalem.

2. B. S. GUHA.—‘*Simphak*’—*The Bark Cloth of the Garos of Assam.*

The making and use of bark cloth is confined to the Matchi and Chisak Garos inhabiting the eastern half of the district. They call it *Simphak* and prepare it from the bark of one of the following trees: (1) Pakram (*Grewia lilix folia*), (2) Prap (*Ficus rumphi*), (3) Chram (*Artocarpus Chaplosa*), (4) Dumbri (*Ficus glomorata*), (5) Anisep (*Kydia calycina*). Of these the first yields the best and the last worst kind of *Simphak*. The bark is taken from the main stem of the trees by cutting two rings on the stem about 8' apart. These are joined by one vertical cut and the bark is split open and pulled off. The outer green layer is carefully removed and the bark is well pounded from the one end to the other running along the fibre with a serrated mallet on a smooth log of wood. It is then doubled over lengthwise and the process of folding and pounding is continued until it is reduced to a thick mass of fibre. The moisture is wrung out and it is dried in the sun unfolded. The requisite length and width are obtained by stitching together two or three pieces, the usual size being 8' x 2'. The *simphak* is used for blanket or bedding purposes and is never used for wearing by the Garos.

The following communications were made:—

1. R. R. MOOKERJI.—*Two combined Pottery and Basketry Specimens from Upper Assam.*

The occurrence of basketry work as a part of an earthen vessel is extremely rare and the author in his present note describes in detail two such interesting combined pottery and basketry specimens collected from Sadiya in Upper Assam. He identifies them to be strainers and shows the possibility of finding similar type of specimen in Assam, Burma, Yunan, Indo-China and Siam.

2. CHINTAHARAN CHAKRAVARTI.—*A Tantric Story about the Origin of Vijayanagar.*

The story, a very short one, is told in the introductory portions of a little-known Tantra digest called the *Vidyārṇava-tantra* which is attributed to a disciple of Pragalbhācārya. It does not appear to be a version of the many stories already recorded but is apparently a new and independent story by itself.

A manuscript of the work belongs to the Library of the Royal Asiatic Society of Bengal.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the two candidates had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the current month.



JULY.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 3rd July, 1939, at 5-30 P.M.

PRESENT.

RAI SIR UPENDRANATH BRAHMACHARI BAHADUR, Kt., M.A., M.D., Ph.D., F.S.M.F., F.R.A.S.B., F.N.I., Medical Secretary, in the Chair.

Members :

Anderson, Mr. J.
Bose, Mr. H.
Bose, Dr. S. M.
Chakravarti, Prof. C.
Chattopadhyaya, Prof. K. P.
Chaudhuri, Mrs. Roma
Cleghorn, Miss M. L.
Das-Gupta, Mr. C. C.
Eekhout, Jhr.
Ghosal, Dr. U. N.

Guha, Dr. B. S.
Haldar, Mr. R. C.
Haq, Prof. M. M.
Hobbs, Major H.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Prashad, Dr. B.
Saha, Dr. M. N.
Siddiqi, Dr. M. Z.
Singhi, Mr. Bahadur Singh

and others.

Visitors :

Bose, Miss Dipti
Bose, Dr. G.

Cleghorn, Miss O. C.
Gommes, Miss M. L.

Guha, Mrs. Uma

The minutes of the last meeting were read and confirmed.

In accordance with Rule 45, the Chairman announced the following changes in the constitution of the Council made in one of the Council Meetings held since the last Ordinary Monthly Meeting:—

General Secretary—Dr. B. S. Guha,
vice, Mr. Johan van Manen, resigned.

Anthropological Secretary—Mr. H. C. Chakladar,
vice, Dr. B. S. Guha, appointed General Secretary.

The Chairman announced that these appointments would take effect from to-day, the 3rd July, 1939.

The Chairman announced that in view of the services rendered by Mr. Johan van Manen, to the Society as its General Secretary in the earlier years and also in view of the fact that he is resigning his office about seven months before the expiry of the present term, the Council sanctioned a gratuity of a lump sum of Rs.10,000 to be paid to him as soon as the resignation took effect.

The General Secretary announced receipt of the following ten presentations of books, etc., which had been kept on the table for inspection:—

- (1) From Royal Asiatic Society of Bengal—'Saundarananda Kavyam'.
- (2) „ Cambridge University Press—'Netherlands India'.
- (3) „ Lodd Govindas, Esq.—'Patipujabidhanam'.
- (4) „ Pratul C. Gupta, Esq.—'Baji Rao II and East India Co.'.
- (5) „ Walter Ruben, Esq.—'Sudienzur Textgeschichte des Ramayana'.
- (6) From K. de Vreese, Esq.—'Nilamata'.
- (7) „ Baroda College—Science Dept.—'Compilation of Research Contributions'.
- (8) From Govt. of Bihar, Patna—'Cat. of Arabic and Persian MSS. Oriental Public Library, Bankipore'.
- (9) From Arch. Surv. of India—'Excavations at Paharpur'.
- (10) „ A. A. M. Scharpe—'Bana's Kadambari'.

The General Secretary announced that the following candidate would be balloted for for election as an Ordinary Member:—

- (14) *Majumdar, Jatindra Mohan*, M.A., Deputy Dock Superintendent, Calcutta Port Commissioners, 29, School Row, Bhowanipore, Calcutta.

Proposer: B. S. Guha.

Seconder: S. K. Chatterji.

The General Secretary reported that there had been no loss of memberships, since the previous meeting, by death.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The following papers were read:—

1. K. B. ZAFAR HASAN.—*Manuscript copy of the Dīwān of Dārā Shikūh.*

The Manuscript, as its name indicates, is a collection of poems composed by Prince Dārā Shikūh, eldest son of Emperor Shāhjahān. As far as is known, it represents the only copy of the work in existence.

General description of the Manuscript. It consists of 143 *ghazals* with 28 *rubā'iyāt* (quatrains) at the end, arranged in alphabetical order. Written in Shikasta script (running style) on Kashmiri paper. Colophon at the end, referring to the title of the Manuscript, viz. *Dīwān-i-Dārā Shikūh*, bearing no name of the scribe or the date of transcription.

Short account of Dārā Shikūh. Translation of selected pieces.

The author thinks that the writing must be very old from the nature of the ink used, and that the Manuscript was written at about the same period when the *Dīwān* was composed (middle of the 17th century A.D.).

2. GIRINDRA SEKHAR BOSE.—*Reconstruction of the Āndhra Chronology.*

In this paper the author has made an endeavour for a reconstruction of the chronology of the Āndhras, one of the most important dynasties of ancient Indian history. The scantiness of the data concerning the Āndhras and the difficulty of their interpretation have been a subject of keen controversy among scholars for the last seventy or eighty years without reaching a stage of finality. The author has challenged many of the accepted methods of interpretation in respect of Purāṇic data which had been a veritable stumbling block on the subject.

Contents. Present position of Āndhra chronology. Provincial rulers under the Āndhras. The Āndhra kings. Āndhra time records. Epigraphic evidence. Two groups of data. Purāṇic chronology. The Purāṇic era. Correlation of data. The origin of the Śaka era. Queen Bālaśrī, Queen Jīvasutā and Gautamīputra Śrī Śātakarṇi. Queen Nayanikā and Gautamīputra Yajña Śrī Śātakarṇi. Some tentative identifications.

Reconstructed Āndhra Chronology. Chronological history. Reconstructed Āndhra history. The bid for sovereignty. The great Gautamīputra. Provincial governors under Gautamīputra. The Āndhras and the Kushāṇas. The Āndhras as patrons of learning. The end of the Āndhra empire.

The Āndhra empire which began in 21 B.C. came to an end in 435 A.C., having lasted for four centuries and a half. Minor Āndhra princes continued to reign in isolated provinces either as independent kings or as provincial governors under other kings for a long time afterwards. If the date of the Gupta era has been correctly fixed the great Āndhra empire must have shown signs of disintegration with the rise of the Guptas from about 320 A.D.

The following exhibit was shown:—

1. THE GENERAL SECRETARY.—*A Photograph of the late Rev. Fr. H. Hosten, S.J.*

Sir Edward Maclagan, K.C.S.I., a Member and Fellow of the Society has presented a photograph of the late Rev. Fr. H. Hosten, S.J., which he has been able to secure from the relatives of Fr. Hosten in Belgium. The size of the photograph is about 7" × 9".

The late Fr. Hosten was an Associate Member of the Society. He contributed several papers to the *Journal* and *Memoirs*. He died in 1935. The photograph will be preserved in the Society's archives.

The following communication was made:—

1. BAINI PRASHAD.—*An old Letter from James Prinsep.*

This is a letter written by James Prinsep, one of the Secretaries of the Society in the 19th century, to Dr. W. H. Mill, D.D.,

in connection with a proposal to obtain a bust of Dr. W. H. Mill by Chantrey by public subscriptions. It also contains a reference to the discovery made by Prinsep regarding the mention of the name 'Antiochus, the Great' in certain Asoka edicts. The letter does not bear any date, but from contemporary evidence, traced by Mr. John Robert Seal, Assistant Secretary of the Society, this has been ascertained to be between 7th February and 7th March, 1838.

The letter was presented to the Society by Dr. Clement C. J. Webb, M.A., D.Litt., Pitchcott, England.

The Chairman announced the result of the ballot for election of the Ordinary Member and declared that the candidate had been duly elected.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



AUGUST.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 7th August, 1939, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Bagchi, Mr. K. M.
Basu, Mr. J. N.
Biswas, Dr. K.
Bose, Dr. S. M.
Brahmachari, Sir U. N.
Chakladar, Prof. H. C.
Chakravarti, Prof. Chintaharan
Chatterjee, Dr. S. K.

Chaudhuri, Mrs. Roma
Das-Gupta, Mr. C. C.
Guha, Dr. B. S.
Haq, Prof. M. M.
Hobbs, Major H.
Hora, Dr. S. L.
Hosain, Dr. M. H.
Rahman, Prof. S. K.

and others.

Visitors :

Bhattacharya, Mr. G. C.
Bose, Miss Dipti
Bose, Mr. Mukul Kumar

Guha, Mrs. Uma
Navi, Mr. K. K.
Roonwal, Dr. M. L.

and others.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of the following thirteen presentations of books, etc., which had been kept on the table for inspection:—

(1) From Afghan Consulate-General, Simla—'Progressive Afghanistan, Lahore, 1933'.

(2) From Cresset Press, London—'India'.

(3-4) From Oxford Univ. Press—'The Book of Truthfulness' and 'Al-Hidayatul-Almiriya'.

(5) From Arafat Publication—'Sahih al-Bukhari, Vol. 5'.

(6) " Hibru University—'Address by the Chancellor of the University'.

(7) From O. C. Gangoly, Esq.—'Antiquity of the Buddha Image'.

(8) " B. Govinda, Esq.—'The art of Anagarika B. Govinda'.

(9-10) " Parsee Panchayet—'Mass and Adult Education in India, and allusions and references in Persian Literature'.

(11) From Musee Guinet, Esq.—'L'Iran sons les Sassanides'.

(12) " Director General, Indian Medical Service—'Indian Medical Review, 1938'.

(13) From Mysore Archæological Dept.—'Annual Report of Mysore Arch. Dept., 1939'.

The General Secretary announced that the following candidates would be balloted for for election as Ordinary Members :—

(15) *Helland, Bernhard Alvin*, M.A. (Minnesota), B.D. (Augsburg Seminary, U.S.A.), Missionary, Principal, Kaerabani Boys' Middle English and Guru Training School, Kaerabani via Dumka, S.P.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

(16) *Bose, Girindra Sekhar*, M.B., D.Sc., Professor of Psychology and Head of Dept. of Psychology, Calcutta University, 14, Parsi Bagan Lane, P.O. Amherst Street, Calcutta.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

The General Secretary reported the following loss of membership, since the previous meeting, by death :—

(4) Dr. G. F. Boulenger (An Honorary Fellow, 1916).

(5) Alhadji, Sir A. K. Ghuznavi (An Ordinary Member, 1926).

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

(9) M. D. Chatterji (An Ordinary Member, 1938).

(10) Sir A. H. Watson (An Ordinary Member, 1928).

(11) B. Dominguez (An Ordinary Member, 1938).

The General Secretary reported that there had been no lapses of election, since the previous meeting, under Rule 9.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rules 2 and 13, the Chairman announced that the Council, since the last Ordinary Monthly Meeting, had recommended the election as Honorary Fellows of the Society of :—

1. Sir Sarvapalli Radhakrishnan, Kt.

2. The Most Hon. the Marquess of Zetland.

3. Prof. Dr. H. Lueders.

4. Sir Jadunath Sarkar, Kt.

The Chairman called upon the General Secretary to state the grounds on which (1) Sir S. Radhakrishnan, and (2) The Marquess of Zetland had been recommended.

The General Secretary spoke as follows about these two nominees in support of the Council's recommendation for election as Honorary Fellows of the Society :—

1. **SIR SARVAPALLI RADHAKRISHNAN.**

'In recommending the name of Prof. Sir Sarvapalli Radhakrishnan for the Honorary Fellowship of the Royal Asiatic Society, the Hon. General Secretary remarked that he needed no introduction to the members of the Society. He was the Haskell Lecturer in Comparative Religion in the University of Chicago in 1926 and the Hibbert Lecturer in 1929. He succeeded Sir J. C. Bose as India's representative on the Intellectual Committee of the League of Nations and was recently appointed to the newly created chair on Eastern Religion and Ethics founded by Mr. Spalding in the University of Oxford. His lectures before the Academic bodies in various parts of the world have marked him out as the greatest cultural ambassador of India. Among his chief contributions may be mentioned the *Reign of Religion in Contemporary Philosophy* (1920), *Indian Philosophy* in two volumes (1923-27), an *Idealistic View of Life* (1932) and *Eastern Religions and Western Thought* (1939).

Prof. Sir Radhakrishnan was for some time the Vice-Chancellor of the Andhra University. He has been for a long time the George V Professor of Philosophy in the Calcutta University and still adorns that chair in conjunction with the Spalding Professorship of the Oxford University. He has lately been made a Fellow of the British Academy being the first Indian to get this coveted distinction.'

2. **THE MARQUESS OF ZETLAND.**

'The Marquess of Zetland, P.C., G.C.S.I., G.C.I.E., is a politician, administrator, scholar and traveller of international reputation, and needs no introduction to the members of the Society. He was Governor of Bengal from 1917-1922.

He was educated at Harrow and Trinity College, Cambridge, and has travelled extensively in Ceylon, India, Persia, Asiatic Turkey, Central Asia, Siberia, Japan, China, and Burma.

Some of the most important appointments held by him are:—

Member, Royal Commission on the Public Services in India, 1912-14.

Governor of Bengal, 1917-22.

President, Royal Geographical Society, 1922-25 and now he is a Trustee.

President, India Society, and President, Royal Asiatic Society, 1928-31.

Member, Indian Round Table Conference, 1930-31.

Secretary of State for India, since 1935 and Secretary of State for Burma, since 1937.

M.P. for Hornsey Division, Middlesex, 1907-16.

He has earned the following academic distinctions :—

Hon. LL.D. (Cambridge) ; Hon. D.Litt. (Leeds) ; Hon. LL.D. (Glasgow) ; and he is a Fellow of the British Academy.

I mention the following few of his most important publications :—

Sport and Politics under an Eastern Sky, 1902.

On the Outskirts of Empire in Asia, 1904.

A Wandering Student in the Far West, 1908.

An Eastern Miscellany, 1911.

Lands of the Thunderbolt, Sikkim, Chumbi, and Bhutan, 1923.

India, A Bird's Eye-View, 1924.

The Heart of Aryavarta, 1925. (He was awarded the gold medal of the Royal Empire Society for this book.)

The Life of Lord Curzon, 1928.

Letters of Disraeli to Lady Bradford and Lady Chesterfield, 1929.

The Life of Lord Cromer, 1932.

Steps towards Indian Home Rule, 1935.'

The Chairman then called upon Dr. S. K. Chatterji to state the grounds on which (3) Prof. Dr. Lueders and (4) Sir Jadunath Sarkar had been recommended.

Dr. S. K. Chatterji then spoke as follows about these two nominees in support of the Council's recommendations for election as Honorary Fellows of the Society :—

3. PROFESSOR HEINRICH LUEDERS.

'Prof. Heinrich Lueders is the *doyen* of Indologists in Germany, whose name is honoured wherever the ancient literature and civilization of India and Central Asia are studied. He is a master of the subject, great as an original investigator and great as a teacher, who has made notable contributions to our knowledge of many branches of Indology—language, literature, epigraphy, history, linguistics and mental and material outlines in their various aspects. Central Asia, as a part of a Greater India of 2,000 to 1,500 years ago with its remains of Indian art, literature and general civilization, has been for him a field of studies as much as the classic soil of India. The fragments of Sanskrit MSS. in palm-leaf discovered from Central Asia and studied by him with unique patience and labour coupled with his vast erudition have yielded to him and to the scholarly world much valuable information about Sanskrit and Prakrit in the early centuries of the Christian era, information which is of far-reaching consequence in the study of Indo-Aryan language and literature in early times. He has given us the right orientation about the origin and antecedents of Pali, and about the primitive Buddhist canon which is behind that

presented by the Pali texts. Dr. Lueders is one of the founders of Central Asian studies, involving the newly discovered languages, Indo-Aryan (Prakrit), Iranian (old Khotanese and Sogdian), and Tokharian (old Kuchean and old Qarashahrrian), and the series of articles on Indian and Central Asian topics as well as monographs and books he has contributed are as varied in their subjects as they are important and conclusive in their results.

Till recently, Dr. Lueders was Professor in the University of Berlin. He still continues to be in close touch with the Prussian Academy of Arts and Sciences, which is one of the premier learned associations of the world. Among other things, he is at present occupied in a new interpretation of Vedic texts. Some years ago Dr. Lueders visited India, and among other places he came to Calcutta where he lectured before the University.

I have had the good fortune of meeting Dr. Lueders on several occasions in Germany, in 1922, 1935 and 1938, and in India when he visited the country in 1936. Dr. Lueders belongs to a generation of scholars who seem to stand head above shoulders beside the present line of investigators, when we consider the extent and depth of their erudition, the sweep of their scientific imagination and their uncanny power of work. In honouring such a man, the Royal Asiatic Society of Bengal will only honour itself: and I recommend most heartily that the Society do elect him to an Honorary Fellowship.'

4. SIR JADUNATH SARKAR.

'Sir Jadunath Sarkar, Kt., C.I.E., M.A., D.Litt., is a historian, a scholar of wide reputation and needs no introduction to the members of this Society. He was educated at the Rajshahi College and the Presidency College, Calcutta. He was a member of the Indian Educational Service from which he retired in 1932. He held many important appointments, amongst which are:—

University Professor of Modern Indian History, Hindu University, Benares.

Sir W. Meyer Lecturer, Madras University.

Reader in Indian History, Patna University.

Vice-Chancellor, Calcutta University, 1926-28.

He is an Honorary Member of the Royal Asiatic Society of Great Britain, a member of the Indian Historical Record Commission and a corresponding member of the Royal Historical Society and the Italian Institute of the Middle and Extreme East. He won the Premchand Roychand Studentship, Menat Gold Medal, and the Griffith's Prize, Calcutta University, and the Sir James Campbell Gold Medal, Bombay Branch of the Royal Asiatic Society of Great Britain. He was a member of the Legislative Council, Bengal, from 1929 to 1932.

His publications include :—

India of Aurangzeb—Statistics, Topography and Roads (1901).

History of Aurangzeb, 5 volumes.

Shivaji and His Times.

Studies in Mughal India.

Anecdotes of Aurangzeb.

Chaitanya : His Life and Teachings.

Economics of British India.

India through the ages.

Fall of the Mughal Empire, 3 volumes.

He also edited and continued W. Irvine's Later Mughals, 2 volumes; and edited the Poona Residency Records.'

The following paper was read :—

1. M. Hidayat Hosain.—*The Conquest of Sholāpūr by Burhān Nizām Shāh I (914-961 A.H., 1508-1553 A.D.) as described by Shāh Tāhir.*

In this paper, the author has given a short history of the conquest of Sholāpūr in the Bombay Presidency by Burhān Nizām Shāh I in 1548 A.D. from a Manuscript in Persian written by Shāh Tāhir who lived in the 16th century. From Tārikh Firishta it is found that Shāh Tāhir was a descendant of Khwāndī Sayyids who traced their origin from the Fātimid Caliphs of Egypt (A.D. 909-1171). While Burhān Nizām was king of Ahmadnagar, Tāhir was living in Goa. His reputation as a great Islamic scholar reached the ears of the king of Ahmadnagar, who sent for him, and Tāhir subsequently became a great favourite and trusted friend of the king. It is recorded that the king had sent him on various political missions to the courts of Gujrāt, Khāndesh, Bijāpūr, and Golconda.

From the treatise of Shāh Tāhir it is gathered that the territory of Sholāpūr was under the sway of Burhān Nizām Shāh I, king of Ahmadnagar, before it became part of the Mughal empire. It is seen from this article that Burhān Nizām Shāh had made four attempts to capture Sholāpūr and succeeded in his fourth attempt.

The treatise gives a description of the fourth attack as follows :—

In 955 A.H. (1548 A.D.), Burhān Nizām Shāh renewed and further strengthened the bonds of alliance with Rāmraj Rāo of Bijānagar. He sent many valuable presents to him and met him on the border of Rāichūr, where it was decided that Rāmraj should attack the forts of Rāichūr and Madkal, while he himself would proceed against the forts of Sholāpūr and Gulbarga. Reinforced by a detachment of troops of Rāmraj, Burhān Nizām Shāh advanced towards the fort of Sholāpūr and surrounded

it. He secured the services of Chilpi Rūmi Khān, gunner of the Sultān Bahādur of Gujrāt, who bombarded the fort continuously for three months and at last reduced it. Burhān Nizām Shāh did not think it advisable to proceed to Gulbarga, but returned to Aḥmadnagar.

It appears from the text, that the Manuscript was written by Shāh Ṭāhir as commanded by Nizām Shāh and copies of the treatise were distributed to other kings of the country for information. It is written in Persian, and only a single copy of it is so far known to exist and is preserved in the Bankipore Library. The Manuscript is therefore unique in itself.

The following exhibits were shown and commented upon:—

1. JHR. P. J. EEKHOUT.—*A Tibetan Banner.*

The Tibetan banner exhibited was obtained by the exhibitor from a Lama at Khatmandu, Nepal, which he visited last month. It is a *tanka*, or a banner that is generally used by Lamas for religious rites and ceremonies,—especially by the Tibetan Buddhists of the Red Sect or Nyingmapas. It is customary for these Lamas to hang this *tanka* on the wall of houses or altars when they worship and make their offerings.

The banner contains eleven figures painted in various colours, of which the figure of Avalokitesvara occupies the centre. He has four hands and is depicted watching over all beings with his merciful eye. The other figures are those of Manjusri, Dorje Sempa, Buddha Sakyamuni, Dorje Sempa (this is painted differently from the other), Padma Sambhava, Tara, Vajrapani and two Red Sect Lamas. In addition to these, there are mystical prayers *Om ma ni pad me hum*, together with the figure of a Naga worshipping the above gods.

The banner is old and important for iconographic purposes, and is of great artistic value.

2. M. Hidayat Hosain.—*Qānūn-i-Humāyūnī, or Humāyūn Nāma.*

This is a work giving a vivid account of the rules and ordinances promulgated by Emperor Humāyūn in his empire, and of the buildings that were erected by him. It is therefore an important treatise as it deals with the administrative system that was prevalent in the early Mughal period.

Sources of information regarding the systems of administration which prevailed during the reigns of Bābur and Humāyūn, and the political ideas and the ideals which moulded and shaped those systems, are various, of which references are found in works of contemporary writers. One of the outstanding contemporaries of Bābur and Humāyūn was that illustrious court historian, Khwānd Mir, who is the author of *Humāyūn Nāma*. From the life-history of this historian, we find that he was attached to the Courts of Bābur and Humāyūn for several years. His book

therefore is not a mere diary of events, or a compilation of historical tales, but is a storehouse of information regarding the conditions of the country during the prosperous reign of the Emperor Humāyūn. The author of the treatise was a careful observer of facts and events which came under his notice, and composed it after a thorough grasp of essential principles as well as the minute details of government. The author was himself a practical statesman and his work bears the impress of a political mind through and through.

Short historical sketch of the author.—Kh^wānd Mir was the court historian of the Emperor Humāyūn. He was born in Herāt in A.D. 1475. He came to India, in 1528, while Bābur was the Mughal Emperor. He presented himself before the Emperor and was admitted to his court. In A.D. 1529, Kh^wānd Mir accompanied Bābur to Bengal and was with him at the *Trimohini*, or the confluence of the Sarajū and the Ganges. After the death of Bābur (1530 A.D.), he served his son, the Emperor Humāyūn, till the end of his life. He was in the train of Humāyūn's military expedition to Gujrāt where he breathed his last in 1534 A.D. His name is recorded as a famous court historian and author of several historical works by his biographers.

There is only one Manuscript copy of *Humāyūn Nāma* in existence, and it is preserved in the British Museum. The exhibitor has been able to obtain a rotograph copy of the Manuscript from the authorities of the Museum which is exhibited here. The Council of the Royal Asiatic Society of Bengal has decided to have this treatise edited and published by him in the *Bibliotheca Indica* series, for which he has obtained permission from the Trustees of the British Museum also.

The following communication was made:—

1. S. L. HORA.—*Observations on the Abundance of Hilsa Crop this year.*

Sir K. G. Gupta and later writers on the fisheries of Bengal were generally of the opinion that *Hilsa* is becoming scarce and recommended the establishment of hatching stations to introduce artificial propagation for replenishing the rivers of Bengal. Further, it is still fresh in our memory that the *Hilsa* crop was very poor in 1937 and 1938. Its great abundance in 1939, therefore, has come as a pleasant surprise to the fish-eating population of Bengal and consequently this fact has received considerable attention in the public press. In explaining the probable causes for this unexpected increase in the yield of the fishery for this year, the author gives a brief account of the life-history and the periodic rise and fall in the annual yield of the *Hilsa* fishery.

The Chairman announced the result of the ballot for the election of Ordinary Members and declared that the two candidates had been duly elected.



SEPTEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 4th September, 1939, at 5-30 P.M.

PRESENT.

DR. BAINI PRASHAD, ESQ., D.Sc., F.Z.S., F.R.S.E., F.R.A.S.B., Biological Secretary, in the Chair.

Members :

Agharkar, Dr. S. P.
Chakladar, Prof. H. C.
Chakravarti, Prof. C.
Ezra, Sir David

Guha, Dr. B. S.
Haq, Prof. M. M.
Hobbs, Major H.
Mukherjee, Dr. J. N.
Rahman, Prof. S. K.

Visitors :

Osman, Md.

Rao, Dr. H. S.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of the following thirteen presentations of books, etc., which had been placed on the table for inspection :—

- (1) From Govt. of Madras—'South Indian Inscriptions, Vol. 9, pt. 1'.
- (2) „ Folklore Society, London—'British Calendar Customs'.
- (3-4) „ Govt. of Bengal—'Butterflies, Vol. 1', 'Mammalia, Vol. 1'.
- (5) „ Govt. of India—'Voyage of P. A. Cabral to Brazil, etc.'.
- (6) „ Toyo Bunko, Tokyo—'Chinese Dress and Personal Ornaments'.
- (7-11) From University Library, Lund—'Resperches sur la valeur des traditions, etc.', 'Studien zur einer Osterkischen, etc.', 'Book of the Himarites', 'Le livre des splendeurs' and 'The Nirukta'.
- (12) From American Council of Learned Societies—'Bulletin No. 28'.
- (13) „ Dr. K. Biswas—'Handbook of Common Water and Marsh Plants'.

The General Secretary announced that the following candidate would be balloted for for election as an Ordinary Member :—

- (17) *Ghosh, J. C.*, D.Sc., F.N.I., Director, Indian Institute of Science, Bangalore.

Proposer: J. N. Mukherjee.

Seconder: M. N. Saha.

The General Secretary reported the following loss of membership, since the previous meeting, by resignation :—

- (12) Dr. E. von Selzam (An Ordinary Member, 1934).
- (13) Gopal Das Chaudhury (An Ordinary Member, 1914).
- (14) A. Merens (An Ordinary Member, 1938).

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The Chairman called upon Mr. M. Mahfuz-ul Haq to read an obituary notice of the late Alhadji Sir A. K. Ghuznavi, an Ordinary Member of the Society from 1926 to 1939, written by Dr. M. Hidayat Hosain (vide page 200).

The Chairman read an obituary notice of the late Dr. George Albert Boulenger, an Hon. Fellow of the Society from 1916 to 1937, written by Mr. Roonwal (vide page 201).

The General Secretary reported that there had been no lapses of election, since the previous meeting.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

The General Secretary reported that since the last Ordinary Monthly Meeting the Council had appointed with effect from 1-8-1939, Mr. Trin Chen, as a special assistant for looking after the Sino-Tibetan section of the Society's library and publications in the grade of Rs.50-3-80, and five additional menial servants in the grade of Rs.15-1-19. The Council had also, after careful consideration of the recommendations of the Special Committee, adopted the scales of pay recommended for various members of staff and defined their duties.

In accordance with Rule 48(a), the General Secretary reported that the Council, since the last Ordinary Monthly Meeting, had recommended the following changes to be made in the existing Regulations regarding the Election of Fellows, R.A.S.B. :—

(a) In Regulation No. 7, the second sentence, reading :

'Up to and including the date of the meeting of Fellows mentioned in Regulation 8, any Fellow shall be at liberty to add his signature, or to authorize in writing the General Secretary to add his name, in support of any candidate already nominated by two Fellows,' should be deleted, and that the Regulation should consist of only the first sentence, reading :—

'The returned nomination papers shall be open to inspection by any Fellow in the Society's Rooms.'

(b) The Regulation No. 8, should consist of only the first para., reading :—

'There shall be a meeting of Fellows within the fortnight preceding the 7th of October, one week's notice of which shall be given to the Resident Fellows. At this meeting matters of concern to the Fellows shall be generally considered and the returned nomination papers shall be scrutinized. It shall be competent to the meeting to remedy any technical faults to

prevent invalidation on this account alone' and that the second para., reading :

'If valid nominations have been returned for more than the maximum number of new Fellows to be elected those nominations which have received the greatest number of signatures shall be selected for inclusion in a list printed as a voting paper, to a number one higher than the total number to be elected. In the event of a tie for such selection, the Fellows present at the meeting, shall decide which of the nominees having obtained the same number of signatures shall be so selected,' should be deleted.

The General Secretary also announced that these amendments to the above Regulations would take effect from the 1st of January, 1940.

In accordance with Rules 2 and 13, the Chairman called for a ballot for election as Honorary Fellows of the Society of:—

1. Sir S. Radhakrishnan, Kt.
2. The Most Hon. the Marquess of Zetland,
3. Prof. Dr. H. Lueders, and
4. Sir Jadunath Sarkar, Kt.

whose names had been proposed for election in the last Ordinary Monthly Meeting.

The following papers were read:—

1. L. S. DUGIN.—*The Songs of the Elder of Herat* (translated from the Russian of V. Zhukovsky).

Abū Ismā'il 'Abdullāh ibn Abī Maṣṣūr Muḥammad al-Anṣārī al-Heravī was born on the 2nd of Sha'ban 396 A.H. (1005 A.D.) at Herat, to which place his ancestors had come in the days of caliph 'Usmān with the latter's famous general Aḥnaf b. Qays. When he was still quite young, Anṣārī showed already an extraordinary aptitude for making verses. Endowed with a remarkable memory and an uncommon zeal for study, he studied theology and jurisprudence (*fiqh*) under the guidance of many prominent shaykhs of his time. His profound learning acquired for him the title of Shaykhu-l-Islām. He devoted himself more specially to collecting traditions, of which he is said to have collected 300,000 and to have been able to quote an appropriate tradition for the most trifling incidents of the daily life.

In the path of mystic life he was the disciple of Abū-l-Ḥasan Kharaqānī.

His poetry is mystico-didactic. The best known of his works is the *Munāsjāt*, which has even been printed in India. Of his other works of which *Hājī Khalfa* enumerates ten titles, and *Rizā-Qulī-Khān* mentions one, only two works in Arabic: *Manāzil-u-s-sā'irīn* and *Zammu-l-kalām* have reached us under their original titles. A copy of the Persian *Tabaqāt*, which served as the principal source for *Jāmī*, *Nafahātu-l-Uns*, and

was for a long time considered as lost, exists in the possession of the Society and has been described in detail in the Society's Catalogue of Persian MSS.

The songs edited in the present article have been called by *Zhukovsky* from the Persian pseudo-*Manāzil-u-s-sā'irīn*, which in his opinion, is probably the work referred to as *Anwāru-t-tahqīq* by *Rizā-Qulī-Khān*.

2. CAPT. L. MUNN.—*A sword dance and skewer-piercing ceremony at Tintini.*

The following exhibit was shown and commented upon:—

1. H. S. RAO.—*The King Crab.*

The king crab is a curious marine creature which has lived through millions of years up to the present time practically unchanged in its general morphological features. Its closest allies are probably among the scorpions and prawn-like crustaceans, but may not be classed with the groups to which these belong. It has a wide distribution along the Indo-Malayan, Chinese and Japanese coasts and along the East coast of North and Central America. There are two species of king crabs which inhabit the East coast of India. One is essentially marine and lives on a sandy or muddy bottom up to a depth of 20 fathoms while the other is mainly estuarine ascending the River Hughli as far as Calcutta. In the breeding period of the marine species which corresponds to the close of the cold weather in Bengal and Orissa king crabs may be seen in pairs, the male—which is smaller in size than the female—has the second and third pairs of limbs of the front part of the body modified as a clasper, holding firmly on to the shield-like back of the female.

The Chairman announced the results of the ballots for the election of the Ordinary Member and Honorary Fellows, and declared that all the candidates had been duly elected.

The Chairman announced that unless special notice be given there would be no Ordinary Monthly Meeting during the recess month of October.

The Chairman announced that unless special notice be given there will be no meeting of the Medical Section in October.



NOVEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 6th November, 1939, at 5-30 P.M.

PRESENT.

SIR DAVID EZRA, Kt., F.Z.S., M.B.O.U., President, in the Chair.

Members :

Bagchi, Mr. K. N.
Brown, Mr. Percy
Dugin, Mr. L. S.
Ghose, Mr. S. C.
Ghoshal, Dr. U. N.
Guha, Dr. B. S.

Hobbs, Major H.
Paaricha, Major C. L.
Rossetti, Mr. F. F.
Saha, Dr. M. N.
Vidyabhusana, Mr. A.
White, Mr. J. C.

Visitors :

Cleghorn, Miss O.
Das, Mr. K. N.
Dutta, Mr. K. S.
Ezra, Lady R.

Job, Mr. P. J.
Kader, Miss Lily I.
Macfarlane, Dr. E. W.
Seal, Mrs. C.

Spensor, Dr. D.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of the following fourteen presentations of books, etc., which had been placed on the table for inspection :—

(1) From Kern Institute, Leyden—'Annual Bibliography of Indian Archaeology, 12, 1937'.

(2) From Royal Asiatic Society of Bengal—'Tabaqat-i-Akbari, Eng., Vol. 3, pt. 1'.

(3) From Archaeological Surv. of India—'Kausambi in Ancient Literature'.

(4) From Archaeological Surv. of India—'Cat. of Coins in the Indian Museum, Supplement to Vol. 3'.

(5) From Patna University—'Psychological Attitude of Early Buddhist Philosophy'.

(6) From Govt. of Bombay—'English Records of Marhatta History'.

(7) „ S. K. Das, Esq.—'Kriper Sastra Arthaveda'.

(8) „ Arch. Surv. of India—'Suppl. to Vol. 2, Cat. of Coins'.

(9) „ Govt. of Bihar—'Index to Catalogue Raisonne of the Persian MSS. in Oriental Public Library of Bankipore'.

(10) From L. Bogdanov—'Les cantes du Perroquet'.

(11) „ Dr. J. B. Chaudhuri—'Sanskrit Poetesses, Part A'.

(12) „ Govt. of India—'Md. Hist. Record Commissions—Proc. and Records of Meetings, Vol. 15'.

(13) From Principal, Khalsa College, Amritsar—'Maharaja Ranjit Singh Centenary Volume'.

(14) From Trustees of Gibb Memorial—'Tabaqat Al-Shu'ara al-Muhdathin of Ibn Al-Mutaz'.

The General Secretary announced that the following candidates had been elected Ordinary Members, during the recess months, under Rule 7 :—

(18) Hasan, Khan Bahadur Maulvi Zafar, Superintendent, Archaeological Survey, Northern Circle, Agra.

Proposer: B. S. Guha.

Seconder: Bains Prashad.

(19) *Bose, Dr. Ajit Mohan*, M.B., Ch.B. (Edin.), Medical Practitioner, 86, Ballygunge Place, Calcutta.

Proposer: B. S. Guha.

Secunder: Baini Prasad.

(20) *Basu Mazoomder, Wooshacur*, B.L., M.R.A.S., F.R.S.A. (Lond.), Bengal Civil Service (Judicial), Munsiff, Barisal, Dist. Bakharganj (Bengal).

Proposer: B. S. Guha.

Secunder: Baini Prashad.

(21) *Bastin, Reginald Walter*, I.C.S., Settlement Officer, Mymensingh, E.B. Rly.

Proposer: B. S. Guha.

Secunder: Baini Prashad.

(22) *Rangarajam, Krishnaswami*, Employee, I.C.I. (India) Ltd., Madras, Rukmani Building, Mambalam, West Madras.

Proposer: B. S. Guha.

Secunder: M. Hidayat Hosain.

(23) *Ram, Bai Bahadur Diwan Khilandu*, Advocate. Lower High Court, Multan, Punjab.

Proposer: Baini Prashad.

Secunder: B. S. Guha.

In accordance with Rule 2(c) the General Secretary announced that the Council had recommended for election for a period of five years, the following lady as an Associate Member of the Society:—

Miss M. L. W. Cleghorn, F.L.S., F.E.S.

The General Secretary stated the grounds on which the recommendation had been made.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported that there had been no lapses of election, since the previous meeting.

The General Secretary announced that there had been no withdrawals of application, since the previous meeting.

The following papers were read:—

1. MISS R. GRACE LEWISON.—*Folk-lore of the Assamese*.

The authoress has collected over a long period about forty folk-stories related to her by the people with whom she has come into contact during her work amongst them. None of these have hitherto been published. They are very varied in character and are related for different reasons. The more common ones serve the purpose of reminding the children of the consequences of unwise actions. Others are handed down from generation

to generation to bring out the purpose and meaning of the festivals. Those dealing with animals are mainly for amusement only, but also often reveal something of the intimacies of family life. The women folk are the main purveyors of these stories which to a certain extent regulate the home life as well as preserving the customs and the beliefs of their religion.

In the absence of the author the paper was read by the Assistant Secretary.

2. D. CHATTERJEE.—*Studies on the Endemic Flora of India and Burma.*

The present paper makes a survey of the distribution of Indian Plants (Dicotyledons) in a detailed manner. The relationship of the various groups of Indian plants with the surrounding countries and the nature of invasion of foreign plants to India and other special features have been discussed thoroughly in Section VII. Further a modified map showing the Phytogeographical regions of India based on various factors has been presented by the author.

In a continental area it is unusual to find a high degree of endemism but 61·5 per cent of Indian plants has been found to be endemic. A possible explanation based mainly on the theory of isolation has been put forward in the present case. The endemic species have been found in high concentration in three regions: (a) The Himalayas, (b) South India, and (c) Burma.

In the absence of the author the paper was read by Dr. E. W. Macfarlane.

3. E. W. GUDGER.—*The Alleged Pugnacity of the Swordfish and the Spearfishes as shown by their attacks on Vessels.* (A Study of their Behaviour and of the Structures which make possible these Attacks.)

The author gives a detailed historical account from literature, widespread both in time and space, of the attacks by swordfishes and spearfishes on ships and boats. He deals with the attacks chronologically, by regions, as such attacks have been recorded from almost all parts of the three central oceans. The accounts of the earlier authors are given verbatim, omitting irrelevant matter, so that the reader may get a general idea of the extensive literature on the subject. A detailed bibliography and excellent illustrations accompany the monographic paper.

In the absence of the author the paper was read by Mr. K. N. Das.

The following communication was made:—

1. MAJOR H. HOBBS.—J. A. Hicky 'Bengal Gazette—1780–82'.

The first English newspaper in Bengal was founded by James Hicky under the title of 'THE BENGAL GAZETTE, or

CALCUTTA ADVERTISER' which made its first appearance about the end of January 1780. No complete file of the paper is known to be in existence. In a bound volume my earliest number is 10 but it contains the Prospectus which promised much, particularly that 'No Anecdote, *Personal or Domestic*, that can possibly convey the smallest offence to any single individual, shall ever be inserted', and the Editor pledges himself, 'that the most attentive caution shall be observed on this Point'.

In those days it must have been almost impossible to comment on any public matter without touching on some abuse. Firm believers that conscience is a good servant but a bad master, Hicky's public was shamelessly on the make so there were more than enough abuses to go round. Greed and unscrupulous rapacity were rampant, and, fortified by jealousy—the greatest of all littleness—quarrels were bitter in the extreme.

On June 18, 1781, there were four criminal prosecutions and one civil suit for damages against Hicky. Two of these were for libel against Warren Hastings, one brought by the Rev. J. Z. Kiernander, and the civil suit for damages was also by Warren Hastings.

Kiernander was bitterly hated by Hicky who showed up the commercial side of that missionary's character, proving Hicky's contention that Kiernander was one of those who come out to do good and stay to do well.

Bengal Past and Present states, 'A most effectual mode was taken by Mr. Hastings to prevent the circulation of some abusive paragraphs in this paper, by sending an order to the Post Office to prevent any newspaper or parcel from Mr. Hicky being received or carried by dak'.

The following exhibit was shown and commented upon:—

1. SIR DAVID EZRA—*A Chameleon.*

The Chameleon or Ground Lion belongs to a sub-order of the Lizard family. It is so called because it looks peculiarly ferocious when molested or disturbed. It hisses like a snake, a characteristic uncommon amongst lizards except for the Gecko family commonly found in the houses of Calcutta. It pretends to bite with open mouth, but actually never does so. It has four distinct characteristic features:—

(1) A tongue which is capable of stretching out 14 inches. The exhibit, shown to-day, caught an insect on the wing at a distance of about 14 inches away.

(2) It has peculiar eyes; lids which are uncommon in the lizard family and eyes which are capable of independent movement.

(3) It has a prehensile tail—somewhat similar to the American monkey or the Indian Hanuman monkey.

(4) It has a foot structure different from all animals on earth—the action of the toe is somewhat like that of the dentist's forceps.

It has no clavicle.

It can change colour. The exhibitor has seen this species changing colour from green to light green; to black; grey; yellow; yellow and black, etc. Red and purple are absent.

There are 50 species of Chameleon: most of them are found in Africa, South of the Sahara, and Madagascar. They are also found in western Mediterranean countries and in Andalusia and Algeria. The one exhibited at the meeting was found in Madura. They are also found in many other parts of India. The exhibitor has seen them in Pachmari and Rajnandgaon.

The Chameleon is essentially arboreal in its habits. It is insectivorous, and is fond of flies of which it consumes large numbers. It lays eggs in damp places.

The exhibit was shown not from the scientific point of view, as that was well-known, but from the point of view of Nature.

Mr. F. F. Rossetti also explained a similar exhibit.

The Chairman announced that no meeting of the Medical Section had yet been arranged to be held during the month.



DECEMBER.

An Ordinary Monthly Meeting of the Royal Asiatic Society of Bengal was held on Monday, the 4th December, 1939, at 5-30 P.M.

PRESENT.

SHAMSU'L 'ULAMA' MAULAVI M. HIDAYAT HOSAIN, KHAN BAHADUR, Ph.D., F.R.A.S.B., Joint Philological Secretary, in the Chair.

Members :

Brown, Mr. Percy
Chakravarti, Prof. C.
Chakravarti, Mr. P. K.
Ghoshal, Dr. U. N.
Guha, Dr. B. S.
Haq, Prof. M. Mahfuz-ul

Hobbs, Major H.
Hora, Dr. S. L.
Prashad, Dr. B.
Rahman, Prof. S. K.
Roy, Dr. H. C.
Saha, Dr. M. N.

West, Mr. W. D.

Visitors :

Hilali, Mr. G. M.
Sukul, Mr. L.

Nag, Mr. U.
Osman, Md.
Roonwal, Dr. M. L.

The minutes of the last meeting were read and confirmed.

The General Secretary reported receipt of the following fifteen presentations of books, etc., which had been kept on the table for inspection :—

- (1) From Mr. P. E. Pieris—'The Sinhala, the last phase'.
- (2) „ The Director General of Archaeology—'Progress of Archaeology in India during the past 25 years'.
- (3) From The Govt. of India—'Report on the work of the Archaeological Survey of India'.
- (4) From Mr. L. S. Dugin—'Les Contes de Perroquet, etc.'.
- (5) „ Royal Asiatic Society—'Feudalism in Egypt, Syria, etc.'.
- (6) „ Swedish Academy of Sciences—'Les Prix Nobel 1938'.
- (7) „ Dr. Fritz Sarasin—'Reisen und Forsoechangen in Ceyolon'.
- (8) „ K. A. Nilakanta Shastri—'Foreign notices of South India from Megasthenes, etc.'.
- (9) From Shri Darbar Sahib Committee—'Gurbani Vayakaran'.
- (10) „ Royal Asiatic Society of Bengal—'Rubaiyat of 'Umar-i-Khayyam'.
- (11) From Commogic Inst. of Washington—'Studies on the Ice Age in India, etc.'.
- (12) From T. S. B. H. Von—'Veder Parichaya'.
- (13) „ Calcutta University—'Bhasa Prakas'.
- (14) „ Sir S. Radhakrishnan—'Mahatma Gandhi'.
- (15) „ Royal Asiatic Society of Bengal—'Manu-smriti, Vol. 2'.

The General Secretary announced that the following candidates would be balloted for for election as Ordinary Members :—

- (24) *Bose, Debendra Mohan*, M.A., Ph.D., F.N.I., Director, Bose Research Institute, 93, Upper Circular Road, Calcutta.

Proposer: M. Hidayat Hosain.

Seconder: Baini Prashad.

- (25) *Ray Chowdhury, H. C.*, Carmichael Professor of Ancient Indian History and Culture, Calcutta University, 6, Mysore Road, Kalighat, Calcutta.

Proposer: M. N. Saha.

Seconder: B. S. Guha.

- (26) *Mukerjee, Jyotish Chandra*, Chief Executive Officer, Calcutta Corporation, 28, Camac Street, Calcutta.

Proposer: B. S. Guha.

Seconder: Baini Prashad.

- (27) *Cameron, Rev. Allan*, M.A., B.D., Principal, Scottish Church College, 3 & 4, Cornwallis Street, Calcutta.

Proposer: Baini Prashad.

Seconder: M. Hidayat Hosain.

The General Secretary reported that there had been no loss of membership, since the previous meeting, by death.

The General Secretary reported the following receipt of news of the death of a former member of the Society :—

Mesrobian J. Seth (An Ordinary Member of the Society from 1897 to 1938).

The General Secretary reported that there had been no loss of membership, since the previous meeting, by resignation.

The General Secretary reported that there had been no withdrawals of application, since the previous meeting.

In accordance with Rule 40, the General Secretary reported that the names of the following Ordinary Members would be removed from the next memberlist of the Society :—

- | | |
|---------------------------|-------------------------|
| (1) G. W. Douglas. | (6) Major R. L. Vance. |
| (2) Dr. Otto Eberl. | (7) R. M. Statham. |
| (3) R. S. Finlow. | (8) Capt. G. L. Mallam. |
| (4) Major D. E. C. Kenny. | (9) O. G. Matthias. |
| (5) H. W. Lyne. | (10) S. C. Chakravarti. |

In accordance with Rules 2 and 13, the Chairman called for a ballot for the election of—

Miss M. L. W. Cleghorn

who had been proposed for election in the last Ordinary Monthly Meeting as an Associate Member for a period of five years.

The following papers were read :—

1. BAINI PRASHAD.—‘*Tabaqāt-i-Akbarī, Eng. Trans., Vol. III.*’

The paper deals with the life of Nizām-ud-dīn Aḥmad, the author of the *Ṭabaqāt-i-Akbarī* which gives an account of the history of India up to the end of the 38th year of Akbar’s reign. After dealing with the sources of the *Ṭabaqāt-i-Akbarī* and discussing the relative importance of the various works, it is shown that the *Tabaqāt* was based on all the available historical works of the time and was the source from which later historians drew their material. The literary and historic importance of the work was also briefly reviewed.

2. GHULAM MUSTAFA MALIK.—*The food of the Mountain Barbel Oreinus McClelland, and its probable bearing on the Introduction of Brown Trout in Himalayan Streams.*

Attention was directed to Mitchell’s observations regarding the destruction of the Mountain Barbels of the genus *Oreinus* from the Kashmir trout-streams in relation to the growth of Brown Trout. The feeding habits and food of *Oreinus* were described and an analysis of the gut contents of 131 specimens of *Oreinus* from Chitral, Kagan Sub-division of the Hazara District, and Afghanistan was given. It was concluded that Brown Trout, a carnivorous fish, flourishes well in association with *Oreinus*, as the latter keeps the streams clean of the vegetable growth and other deleterious matter and thereby encourages the growth of insect larvæ that inhabit rocks and stones and form the food of Brown Trout. Further, its fry provide food for the trout during the season when insects which form its normal diet are scarce.

No definite data were available about the food of Rainbow Trout in Himalayan waters, and it was therefore difficult to assess

its influence on the indigenous fish-fauna of the streams of this area.

In view of the above a plea was made for a thorough biological investigation of the local waters before any exotic species was introduced.

3. GHULAM MUSTAFA MALIK.—*Cases of mortality of Brown Trout, Salmo trutta fario Linn., in the Hatcheries of the Hazara District, N.W.F. Province.*

From an examination of the material in the collection of the Zoological Survey of India, the author discussed the cases of mortality of the Brown Trout in the Jabori and Shinu hatcheries of the Hazara District, N.W.F. Province. Short description of the two hatcheries and the results of *post mortem* examination of the various cases were given.

In the case of Jabori hatchery the mortality was traced to excessive growth of algæ and to the development of thyroid tumours or goitre. The death of trout in Shinu hatchery was attributed to malstripping and malnutrition. An interesting case of visceral abnormality was also described. Remedial measures were suggested, and in the case of trout in the Shinu hatchery, it was concluded that some of the deaths at least could have been prevented by the employment of better trained staff for manipulation during stripping and by feeding the fish on a suitable diet.

The following communication was made:—

1. CHINTAHARAN CHAKRAVARTI.—*Sanskrit works of Sāhib Kaula.*

Sāhib Kaula, which seems to be a Tantric ecclesiastical designation in Kashmir, is a peculiar and rather unique title. A person occupying the position in the 17th century, who called himself *Mahāmāheśvarācārya* and *Sāhibkaulānandanātha*, was the author of several Sanskrit works of which the Royal Asiatic Society of Bengal possesses the manuscripts of three. A manuscript of a fourth work, the *Kalpavṛkṣa* composed in 1733 V.S., is reported to be in the possession of Pandit Madhusudan Kaul, Superintendent of Archaeology, Kashmir, who claims to be a descendant of this illustrious personage. Of the works, of which manuscripts are possessed by the Society, the *Śrīvidyā-nityapūjāpaddhati* is a big ritualistic work dealing with the details of the worship of Tripurā. The other two are panegyrical poems eulogizing the Divine Mother. Of these the *Sārikāstava* is a small hymn to the goddess Sārikā, while the *Devīnāmaṭilāsa*, composed in 1723 V.S., is a work in 16 chapters, dealing with 1,000 names of the Divine Mother. Besides these, several stray verses of Sāhib Kaula are also found in the manuscript containing the *Sārikāstava*.

The present author is evidently different from Sāhebrām or Sāhibrām of the 19th century whose works are referred to by Aufrecht in his *Catalogus Catalogorum* (I. 716, II. 171).

The Chairman called upon the following to show and explain his exhibit:—

1. BAINI PRASHAD.—*Bhowal Copper-plate Inscription of Lakshmana Sena.*

HISTORY OF PLATE.

Mr. Walters, who was Magistrate of Dacca during the early part of last century, obtained a copper-plate of Lakshmana Sena—the Bhowal plate—from Golucknarain Rae, and presented it to the Asiatic Society, Calcutta. This presentation was announced at the May meeting of the Asiatic Society of 1829, and a reference to it was included in the proceedings of the Society for that month published in 'Gleanings in Science', and also in the 'Calcutta Gazette', dated May 14, 1829. Presumably the plate was taken to England by Mr. H. H. Wilson, who was the Secretary of the Asiatic Society up to 1832, and who, after his retirement, was appointed Librarian of India House.

No further reference to the plate has been traced until 1875 when a short account of it was published by Navinachandra Bhadra in his 'Bhoyaler itihasa', 1875. In 1927 Dr. Nalini Kanta Bhattasali gave full details about it in an article in the 'Indian Historical Quarterly'.

The plate was thought to have been lost until June of this year when Dr. H. N. Randle, Librarian of the India Office, published an account of some copper-plates which he had discovered in a safe in the India Office, and suggested that one of these was presumably the lost Bhowal plate.

Dr. N. K. Bhattasali immediately directed the attention of the Royal Asiatic Society of Bengal to this discovery. The Society thereupon raised the question of ownership with the Library authorities at the India Office, who, after investigation of all the available evidence, admitted the Society's claim.

Meanwhile, owing to the war, it was not considered safe to send the plate out to India, Sir John Arthur Herbert, then Governor-designate of Bengal, however, offered to bring it out with him, and through his kindness it has now been received back in Calcutta. This is of particular importance as scholars will now be able to have early access to the plate itself, and check the reading of the inscription, photographs of which, together with a critical account are being published in 'Epigraphica Indica'.

FIND-SPOT.

Mr. Walter's account of the find-spot of the plate is as follows:—'About thirty miles north of the city of Dacca, a few

miles above the site of the ancient fortress of Akdala, and a short distance from the banks of the river Luckiah, is situated Mowza Rajabary, appertaining the pergunah Bhowal, and included in the modern division of "thannah" Jamalpore. At this place, on the crest of a low hill, stands an ancient building called Moggee's Mut (Maghir Matha). About forty years ago (i.e. about 1790) the accompanying copper-tablet was dug up by a Koonch ryot, at a short distance from the "mut". It was conveyed to the Bhowal zemindar, Luckhenarain Rae, from whose son, Golucknarain Rae it has now been obtained'

DESCRIPTION OF PLATE.

It is a single plate measuring $13\frac{1}{2}$ by 12 inches, weighing 7 lbs., and having 59 lines incised upon it, 30 on the obverse and 29 on the reverse. A projection from the top edge, in the shape of an inverted shield or heart, carries the usual Sena device, the image of Sadasiva, 3 inches in diameter, fixed by a stout central bolt almost $\frac{1}{2}$ inch in diameter which projects about $\frac{1}{2}$ inch on the reverse

REPORT OF INSCRIPTION.

The deed was issued by the 'Maharajadhiraja Ariraja-Madanasankara' Lakshmanasenadeva (lines 28 and 57-8). The name of the place of issue has been doubtfully read in the Madhainagar grant as Dharyyagrama. In the present plate it is again doubtful (line 24). The grant is dated the sixth day of the month Karttika in the (regnal) year 27, and was executed by Sabkaradhara, the 'Gauda-Mahasandhivigrahika' as 'duta' (lines 57-59).

It is a conveyance of land to Padmanabhadeva Sarman Pathaka . . . The motive of the gift is to win merit for the 'Mahadevi' (Queen) . . . padevi and the 'Mahadevi' Kalyanadevi (line 48).

The land conveyed consists of two adjacent estates, of the annual value of 400 'kapardaka puranas', in the Paundra-vardhana bhukti.

DATE OF INSCRIPTION.

The date of the inscription, if Lakshmana Sena's reign was c. 1170-1200 A.D. must be fixed at c. 1197 A.D., and therefore very near the time of his overthrow by Muhammad Bakhtiyar.

The Chairman announced the result of the ballot for the election of Ordinary Members and an Associate Member and declared that all candidates had been elected.

OBITUARY NOTICES.

THE HON'BLE ALHADJI NAWAB BAHADUR SIR ABDELKERIM
ABU AHMED KHAN OF DILDUAR.

(1872-1939.)

The death of Sir Abdelkerim in his sixty-seventh year removes from Bengal and especially from the Muslim Community one of the greatest Muslim leaders which Bengal has produced. He was born on 25th August, 1872, and was educated at St. Peter's School, Exmouth, Devonshire. At an early age sent to a public school in England and appeared at the I.C.S. examination in 1890, after which finished his career in the Universities of Oxford and Jena; he travelled almost all over the continent of Europe, where a number of years were spent for education purposes in Germany, France and Italy; he returned to India in 1894 and settled on his estates handed down by his ancestors Fatehdad Khan Ghuznin Lohani, the last independent Afghan chieftain of Bengal. He represented the whole of East Bengal and Assam in both Muslim and Hindu interests in the old Imperial Legislative Council, from 1909-12 and the whole of Bengal in Muslim interest in Viceroy's Council, 1913-16. He went on a political mission to the Court of ex-King Hussein of Hedjaz as well as to Palestine and Syria to enquire into the question of Pilgrim Traffic, 1913. He was exempted from Indian Arms Act in 1925, and was President of Bengal Simon Committees in 1929. He visited as estate guest the Court of King Abn Saoud of the Hedjaz and Nejd; thereafter travelled extensively in Sudan, Egypt, Palestine, Syria and Iraq in order to study irrigation problems and other matters connected with the constitution of these countries. He was created Knight in 1928 and Nawab Bahadur in 1933; was a member of the Executive Council of the Governor of Bengal since 1934. He was the author of several works of which the following may be mentioned:—(1) Pilgrim Traffic of Hedjaz and Palestine, (2) Muslim education in Bengal and (3) The Working of the Dyarchical system in Bengal.

His activities in public life as well as in cultural field are too well-known to need comment. Not only will his loss be felt in his own immediate circle, but also in the Province of Bengal, in India and in the wider world where his activities had endeared him to so many. The Society, too, of which he was

a member for over 14 years will sadly miss his kindly presence and be the poorer by his demise.

M. HIDAYAT HOSAIN.

(Read in the Ordinary Monthly Meeting of 4th September, 1939.)

DR. GEORGE ALBERT BOULENGER.

(1858-1937.)

Dr. George Albert Boulenger was born of Belgian parents at Brussels on Oct. 19, 1858, and died at St. Malo on Nov. 23, 1937, at the age of 79 years. From his boyhood he exhibited a passion for Natural History and ultimately became one of the greatest descriptive biologist of his day, his special love being Batrachians, Reptiles and Fishes. Educated at the Brussels University, he served for a short time as assistant in the Natural History Museum, Brussels. In 1882 he was appointed as an assistant in charge of the Reptile Collection in the Department of Zoology, British Museum (Natural History), a position which he held with great distinction for nearly 40 years, until his retirement in 1920.

Gifted with great energy and passion for work, he produced an enormous number of first-class papers and monographs, among which may be mentioned his catalogues of Batrachians, Lizards, Chelonians, Crocodiles, Snakes, etc., works which are regarded as standard to this day. His writings on Fishes in the Cambridge Natural History series and elsewhere are equally important.

Indian Zoology also owes a debt to him. He wrote the volume on Reptiles and Batrachians (1890) in the Fauna of British India series; the Report on Reptiles collected by the Indo-Afghan Delimitation Commission; and the Report on Fresh-water Fishes and Reptiles (1909) collected by J. Stanley Gardiner's Expedition in the Indian Ocean.

The learned world honoured him in many ways. He was elected a Fellow of the Royal Society of London in 1894, and was for several years a Vice-President of the Zoological Society of London. Foreign Societies all over the world elected him an Honorary Fellow, and many Universities conferred on him Honorary Doctorates. By his death Zoology has lost a great and indefatigable researcher.

M. L. ROONWAL.

(Read in the Ordinary Monthly Meeting of 4th September, 1939.)

**PROCEEDINGS OF THE MEDICAL SECTION
MEETINGS, 1939.**

No meeting of the Medical Section was held during the year.

PUBLICATIONS OF
THE ROYAL ASIATIC SOCIETY OF BENGAL

IN THE
BIBLIOTHECA INDICA SERIES

1939

I. SANSKRITIC WORKS

- (1) SAUNDARANANDA KĀVYA of Ārya Bhadanta
Aśvaghoṣa.

Work No. 192.

Editor: Mahāmahopādhyāya Haraprasad Shastri,
C.I.E., M.A., D.Litt., F.A.S.B.

Re-issue with additions by Professor Chintaharan
Chakravarti, M.A.

Demy Octavo, pp. 1*-20*, + i-xxiv, + 1-158.

Price Rs.3.

This is a very important old Sanskrit Buddhistic epic poem, and the work now published is a re-issue of the *editio princeps* with additional matters by Prof. Chintaharan Chakravarti as follows:—

1. An amalgamated list containing all emendations found in various publications dealing with the Saundarananda.
2. A bibliography of the Saundarananda.

- (2) ĀTMA TATTVA VIVEKA of Udayanācārya.

Work No. 170.

(With the commentaries of Śaṅkara Miśra, Bhagīratha
Ṭhakkura and Raghunātha Tārikikaśiromaṇi.)

Editors: Mahāmahopādhyāya Vindhyesvariprasada
Dvivedin and Pandit Lakshmana Sastri Dravida.

Concluding fasc. No. 6.

Demy Octavo, pp. i-xiv, + 417-948.

Price Rs.4-8.

(Fascicles 1-5 published 1907-1925, all available.

Price Rs.3-12.)

Price of complete work—Rs.8-4.

This is a well-known Nyāya treatise. It seeks to establish the conception of the permanent souls in refutation of the Buddhist theories against it.

The edition, as the title indicates, is accompanied by commentaries of Śaṅkara Miśra, Bhagīratha Ṭhakkura and Raghunātha Tārkika-śiromaṇi.

(3) MANU-SMṚTI, Volume II.

Work No. 256.

(With the 'Manubhāṣya' of Medhātithi.)

Edited from several manuscripts by Mahāmahopādhyāya Ganganatha Jha, M.A., D.Litt., LL.D.

Royal Octavo, pp. 1-494.

Price Rs.5.

(4) MANU-SMṚTI, Volume III.

Work No. 256.

Index of Verses by Mahāmahopādhyāya Ganganatha Jha, M.A., D.Litt., LL.D.

Royal Octavo, pp. i-iv, + 1-2, + I-IV, + 1-102.

Price Rs.2.

(Volume I published 1932, Volume II, 1939 and Volume III, 1939.)

Price Volume I—Rs.6; complete Volumes I-III, Rs.13.

The learned editor, as a result of a detailed study of the commentary of Medhātithi which he translated into English for the University of Calcutta, has been able to evolve 'some sort of a readable and understandable text' of this commentary even though the available manuscript material is extremely unsatisfactory. The present edition, besides containing the text of the Manusamhitā and the text of this valuable commentary thus constructed, contains a highly useful index of every foot of each verse of this Samhitā.

II. ARABIC AND PERSIAN WORKS

(1) TĀRĪKH-I-SHĀHĪ of Aḥmad Yādgar.

Work No. 257.

(Also known as Tārīkh-i-Salāṭin-i-Afāghina.)

A history of the Sultāns of Delhi from the time of Bahlūl Lūdī (A.H. 855-894) to the entry of Emperor Akbar into Delhi in A.H. 964.

Editor: M. Hidayat Hosain, Ph.D., F.R.A.S.B.

Royal Octavo, pp. i-x, + 1-482.

Price Rs.5.

It is an authoritative work dealing with the last two years of the Emperor Bābur's reign, and the entire history of the Afghan rulers of India.

The history was compiled under the orders of Dā'ūd Shāh bin Sulaimān, the last king of Bengal (A.H. 980-984, A.D. 1572-1576).

Mr. H. Beveridge remarked 'The most valuable part of his work is his account of the last two years of Bābur's reign'. Sir Wolesley Haig, Vincent A. Smith and other historians like Von Noer also quote this book in their works.

The edition is based on a careful collation of the available materials.

(2) **TABAQĀT-I-AKBARĪ** of Khwājah Nizāmuddīn Aḥmad, Volume III.

Work No. 225.

A history of India from the early Musalmān invasions to the thirty-eighth year of the reign of Akbar.

Translated and annotated by Brajendranath De, M.A., I.C.S. (Retd.).

Revised and edited by Baini Prashad, D.Sc., F.R.A.S.B., F.N.I., F.R.S.E.

Volume III, Part I, Royal Octavo, pp. 1-464.

Price Rs.6-4.

Volume III, Part II, Royal Octavo, pp. i-li, + 465-816.

Price Rs.5.

(Text edition Volumes I-III issued 1913-1935, Price Rs.17, and English translation Volumes I and II issued 1928 and 1936, Price Rs.6-4 and Rs.11-5. All available.)

It is amongst the best Persian histories and is the most reliable source of our information regarding the history of India from the early Musalmān invasions to the end of the 38th year of the Emperor Akbar's reign 1002 A.H. (1593-1594 A.D.). The text edition is based on collation of several manuscripts, while the value of the English translation is greatly enhanced by detailed critical notes to other available sources of reference and contemporary works. The Preface deals with the lives of the author and the translator and contains—in addition to the bibliographical notes on the sources of the *Tabaqāt*—a critical review of its importance as a historical work.

(3) **AKBARNĀMA** of Abu-l-Faḍl, Volume III, Fasc. 14.

Work No. 138.

A history of the reign of Akbar including an account of his predecessors.

Translated from the Persian by H. Beveridge, I.C.S. (Retd.), F.A.S.B.

Volume III, Fasc. 14, concluding fascicle, Royal Octavo, pp. i-xxxiv, + 1263-1276, and Index pp. 1-68.

Price Rs.2-8.

(Volume III, Fascs. 1-13 published 1897-1921, Price Rs.17-8.)

Price complete Volume III—Rs.20.

(Text edition Volumes I-III issued 1873-1886, Price Rs.38, and English translation Volumes I and II issued 1897 and 1921, Price Rs.10 each. Complete Volumes I-III, Price Rs.40. Few copies of Volumes I-III are still available. Loose copies of Volumes I and II are separately available.)

This work is the official detailed and authentic history of the reign of the Emperor Akbar, and his predecessors. It was compiled by the order of the Emperor by Abu-l-Fazl who used for his material the private memoirs which were supplied to him under orders of the Emperor, the official records, the royal proclamations, and the letters and returns of the officers of the State. The work during its progress was submitted to the Emperor, who corrected and supplemented it from his personal recollections.

(4) Ā'ĪN-I-AKBARĪ by Abu-l-Fazl 'Allamī.

Work No. 61.

Translated from the original Persian by H. Blochmann, M.A.

Second edition, revised by D. C. Phillott, Lt.-Col., M.A., Ph.D., F.A.S.B.

Volume I, Royal Octavo, pp. i-lx, + 1-736, + Plates 1-17 and 1 Table. (Printed in England.)

Price Rs.25.

This is a thoroughly revised and greatly enlarged edition of the well-known translation of Volume I of Ā'īn-i-Akbarī by the late H. Blochmann. The work had been out of print for a long time. It is a most important work of reference for the history of the Moghul times.

(5) RUBĀ'ĪYĀT OF 'UMAR-I-KHAYYĀM.

Work No. 258.

Persian text edited from a manuscript dated 911 A.H. (1605 A.D.) with a facsimile of the manuscript.

Editor : M. Mahfuz-ul Haq, M.A.

Complete work.

Royal Octavo, pp. i-viii, + 1-92, with Plates I-LVII.

Price Rs.20.

This text of the *Rubā'iyāt* is based on a manuscript which is considered to be the oldest and the only illustrated copy of the quatrains of Khayyām yet discovered. The beautiful ornamentation, illumination, calligraphy and the charming miniatures are the chief features of this manuscript. Three four-coloured blocks have been reproduced in the work to give the reader an idea of the beauty of the manuscript. In the Preface the editor has described the importance of the *Rubā'iyāt* and includes an account of the author. The manuscript copy was transcribed by the world famous calligrapher, Sultān 'Alī of Mashhad, and illuminated and illustrated by some of his worthy colleagues who had lavishly expended gold, lapis lazuli, and other costly materials in adorning the manuscript for presenting it to some royal personage.

(6) **HAFT-IQLĪM** of Amīn Aḥmad Rāzī, Volume I, Fasc. 3.

Work No. 215.

The Geographical and Biographical Encyclopædia.

Editors : A. H. Harley, M.A., Khān Bahādur Maulvī 'Abdul Muqtaḍir, and M. Mahfuz-ul Haq, M.A.

Volume I, Fasc. 3, concluding fascicle, Royal Octavo, pp. i-vi, + Notes 1-66, + Persian text 209-312.

Price Rs.2-8.

(Volume I, Fascs. 1 and 2 published 1918-1927, Price Rs.3.)

Price complete Volume I—Rs.5-8.

A famous Geographical Encyclopædia, describing the seven Iqlīms or climates of the world—their chief countries and towns, giving at the same time the past and the present history of each town and full biographical notices regarding their celebrated men. The work was compiled in six years by Amīn Aḥmad Rāzī and completed in A.H. 1002, A.D. 1594. The first volume of the text with elaborate notes is now complete and succeeding volumes will be issued as they are completed.

(7) **'AMAL-I-ŠĀLIH** or **SHĀH JAHĀN NĀMAH** by Muḥammad Šāliḥ Kambo, Volume III, Fasc. 5.

Work No. 214.

A complete history of the Emperor Shāh Jahān.

Editor : Ghulam Yazdani, O.B.E.

Volume III, Fasc. 5, concluding fascicle, Royal Octavo, pp. i-xvi, + 385-490.

Price Rs.2.

(Volume III, Fascs. 1-4 published 1928-1936, Price Rs. 4.)

Price complete Volume III—Rs.6.

(Volumes I-III published 1912-1939, Price Vol. I—Rs.7, Vol. II—Rs.6. All available. Index Volumes I-III under preparation.)

It contains an account of the birth of Shāh Jahān and his predecessors from Jahāngir upwards to Tīmūr; the history of Shāh Jahān's minority; the account of his reign from his accession to the time of his confinement; and the biographical notices of eminent persons of his time. The text edition is completed with the fascicle printed during the year. It is a very important contemporary history of the time.

III. CATALOGUES OF MANUSCRIPTS

- (1) CATALOGUE OF THE ARABIC MANUSCRIPTS, Volume I, in the collection of the Royal Asiatic Society of Bengal.

Prepared by Wladimir Ivanow.

Revised and edited by M. Hidayat Hosain.

Royal Octavo, pp. i-xvii, + 1-694.

Price Rs.10.

This work is a descriptive Catalogue of 1,200 Arabic Manuscripts in the Library of the R.A.S.B. dealing with religious subjects of Islām, such as, commentaries of the Qur'ān, Sayings of the Prophet, Jurisprudence, Scholastic Theology and Sufism. The collection is particularly rich in Shi'ite and Zaidite works which are not generally found in most libraries of India or abroad.

- (2) DESCRIPTIVE CATALOGUE OF SANSKRIT MANUSCRIPTS, Volume VIII, Tantra, Part I, in the collection of the Royal Asiatic Society of Bengal.

Prepared by MM. Haraprasad Shastri, C.I.E., M.A., D.Litt., F.A.S.B.

Revised and edited by Prof. Chintaharan Chakravarti, M.A.

Royal Octavo, pp. i-iv, + 1-608.

Price Rs.8-12.

[Vol. I, Buddhist MSS., published 1917, Price Rs.3.	
„ II, Veda,	„ 1923, „ Rs.17-8.
„ III, Smṛti,	„ 1925, „ Rs.15.
„ IV, History and Geography,	„ 1923, „ Rs.2-8.
„ V, Purāṇa,	„ 1928, „ Rs.15.
„ VI, Vyākaraṇa,	„ 1931, „ Rs.12-8.
„ VII, Kāvya,	„ 1934, „ Rs.10.
All available.]	

The present part contains detailed description of 648 manuscripts on Tantra: (1) 362 MSS. of original Tantras, (2) 286 MSS. of later digests of which 133 belong to comprehensive and general works, and 153 to works pertaining to different aspects of Śakti or the Divine Mother.

The editor in his descriptions has, among other things, drawn attention to special features of the manuscripts as revealed by a careful analysis and a comparison of the available printed editions or descriptions in other catalogues.

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